



# Nanjing CUH Science & Technology Co.,Ltd

Vibratory Feeder Controller Specialist  
Provide Professional Service



## Catalog of Vibratory Feeder Controllers

## Vibratory Feeder Controller Specialist Provide Professional Service



**CUH** is a high-tech enterprise-which co-operates with Nanjing University, Southeast University, Nanjing University of Science and Technology and some others. We mainly research develop and produce automatic feeding systems and intelligent production equipments. Relying on the precise and pragmatic work attitude and strong technical force, CUH has gained a high popularity in domestic and international vibratory feeding fields by our reliable and stable products after a long and unremitting effort.



**CUH** has developed products-which are well known and universally acknowledged the vibratory feeding world through self-directed innovation and formed a complete product line from entry-level to high-end. CUH has become the leader of vibratory feeder controller by our stable, reliable, efficient and energy saving products. We can provide solutions to all kinds of control, drive and power supply requirements.

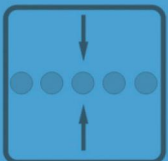


**CUH** is devoted to provide total solutions of vibratory feeding. You can get not independent components, but a complete intelligent feeding system which has automatic setting, automatic monitoring and automatic adjusting functions.



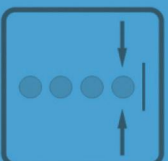
WE has passed ISO9001、ISO14001、ISO45001 Quality Management Systems Certificated

Our featured products have passed UL certification, CE Certificated  
The controller produced by CUH has passed RoHS certification



# Stable. Reliable. flexible. Efficient

## [www.en.cuhnj.com](http://www.en.cuhnj.com)



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## SDVC21-S

Variable Voltage Digital Controller for Vibratory Feeder



### Technical Data

| Item                                    | Range               |         |          | Unit   | Note                        |
|---|---------------------|---------|----------|--------|-----------------------------|
|   | Min                 | Typical | Max      |        |                             |
| Input Voltage                           | 85                  | 220     | 250      | V      | AC RMS                      |
| Adjustable Output Voltage Range         | 35                  | ---     | Vin-10   | V      | Half Wave                   |
|   | 45                  |         | Vin-5    |        | Full Wave                   |
| Voltage Adjustment Accuracy             | 1                   |         |          | V      |                             |
| Voltage Regulation Accuracy             | ---                 | ---     | 30       | V      | Vset = 150V<br>ΔVin+ = 70V  |
| Voltage Regulation Response Time        | 0                   | 0.01    | 0.02     | s      |                             |
| Adjustable Output Current Range         | 0                   | ---     | 5        | A      |                             |
| Output Power                            | 0                   | ---     | 1100     | VA     |                             |
| Output Frequency                        | 45                  | 50/60   | 65       | Hz     | Half Wave                   |
|   | 90                  | 100/120 | 130      |        | Full Wave                   |
| Output Waveform                         | Phase Angle Control |         |          |        |                             |
| Soft Start Time                         | 0                   | ---     | 9.9/10.0 | s      | Default value: 1.0          |
| On/Off Delay Time Range                 | 0                   | ---     | 9.9/99.9 | s      | Default value: 0.2          |
| On/Off Delay Time Accuracy              | 0.1                 |         |          | s      |                             |
| Overheat Protection Trigger Temperature | 58                  | 60      | 66       | °C     |                             |
| DC Control Output Voltage               | 22                  | 24      | 26       | V      |                             |
| DC Control Output Current               | 0                   | ---     | 400      | mA     |                             |
| Analog Control Signal                   | 1~5/4~20            |         |          | V/mA   | Remote Speed Control signal |
| Digital Control Signal                  | 24                  |         |          | V      | Switching Signal            |
| Adjustment Method                       | 6                   |         |          | Button |                             |
| Fuse Capacity                           | 6.3                 |         |          | A      |                             |
| Standby Power Consumption               | ---                 | 2       | ---      | W      |                             |
| Display Method                          | 5                   |         |          | Digit  | LED                         |
| Ambient Temperature                     | 0                   | 25      | 40       | °C     | No Condensation             |
| Ambient Humidity                        | 10                  | 60      | 85       | %      |                             |
| Storage Ambient Temperature             | -20                 | 25      | 65       | °C     |                             |

Note: "xxx/xxx" indicates "Traditional Parameter values / Modern Parameter values"

### Model

SDVC21-S: 5A

### Features

**Automatic Voltage Regulation:** The internal digital voltage regulation circuit can reduce feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Preset Speeds:** 4 feed speeds can be preset, stored and outputted by connecting external short-circuit signals.

**Dual Switch Sensor ON/OFF Control:** Adaptive switch sensors or PLCs can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Fuse-Short Circuit Protection:** If output of the controller is short-circuited, the fuse inside will be blown to protect the controller and the load.

**Max Adjustable Output Voltage:** Max Adjustable Output Voltage can be preset to protect the load from damage caused by too high voltage.

### Dimensions & Weight

Dimensions: 190\*53.6\*94.5 (L\*W\*H, mm)

Weight: 430g (without accessory)

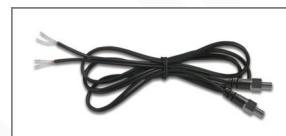
### Standard Accessories



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

### Optional Accessories



- Intelligent Photoelectric Sensor(1.5m)

### Vibratory Feeder Controller Expert

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**SDVC21-LP**

Variable Voltage Digital Controller for Vibratory Feeder



**Model**

SDVC21-LP: 10A

**Features**

**IP Grade:** IP67. The controller keeps running well in humid, oily and dusty environment.

**Super Wide Input Operation Voltage:** Input voltage value to the controller could range from 85 to 400 AC.

**Automatic Voltage Regulation:** The internal digital voltage regulation circuit can reduce feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Preset Speeds:** 4 feed speeds can be preset, stored and outputted by connecting external short-circuit signals.

**Dual Switch Sensor ON/OFF Control:** 2 NPN switch sensors or PLCs can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Lightning Protection:** The controller can withstand lightning stroke below 4KV.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Fuse-Short Circuit Protection:** If output of the controller is short-circuited, the fuse inside will be blown to protect the controller and the load.

**Max Adjustable Output Voltage:** Max Adjustable Output Voltage can be preset to protect the load from damage caused by too high voltage.

**Technical Data**

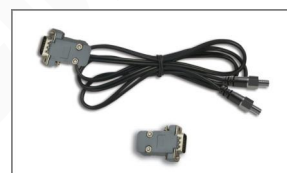
| Item                                    | Range               |         |        | Unit   | Note                        |
|---|---------------------|---------|--------|--------|-----------------------------|
|   | Min                 | Typical | Max    |        |                             |
| Input Voltage                           | 85                  | 380     | 440    | V      | AC RMS                      |
| Adjustable Output Voltage Range         | 35                  | ---     | Vin-10 | V      | Half Wave                   |
|   | 45                  |         | Vin-5  |        | Full Wave                   |
| Voltage Adjustment Accuracy             | 1                   |         |        | V      |                             |
| Voltage Regulation Accuracy             | ---                 | ---     | 30     | V      | Vset = 150V<br>ΔVin+ = 70V  |
| Voltage Regulation Response Time        | 0                   | 0.01    | 0.02   | s      |                             |
| Adjustable Output Current Range         | 0                   | ---     | 10     | A      |                             |
| Output Power                            | 0                   | ---     | 3800   | VA     |                             |
| Output Frequency                        | 90                  | 100/120 | 130    | Hz     | Full Wave                   |
|   | 45                  | 50/60   | 65     |        | Half Wave                   |
| Output Waveform                         | Phase Angle Control |         |        |        |                             |
| Soft Start Time                         | 0                   | ---     | 10.0   | s      | Default value: 0.5          |
| On/Off Delay Time Range                 | 0                   | ---     | 9.9    | s      | Default value: 0.2          |
| On/Off Delay Time Accuracy              | 0.1                 |         |        | s      |                             |
| Overheat Protection Trigger Temperature | 58                  | 60      | 66     | °C     |                             |
| DC Control Output Voltage               | 22                  | 24      | 26     | V      |                             |
| DC Control Output Current               | 0                   | ---     | 200    | mA     |                             |
| Analog Control Signal                   | 1~5/4~20            |         |        | V/mA   | Remote Speed Control signal |
| Digital Control Signal                  | 24                  |         |        | V      | Switching Signal            |
| Adjustment Method                       | 4                   |         |        | Button |                             |
| Fuse Capacity                           | 16                  |         |        | A      |                             |
| Standby Power Consumption               | ---                 | 4       | ---    | W      |                             |
| Display Method                          | 4                   |         |        | Digit  | LED                         |
| Ingress Protection Level                | IP67                |         |        |        |                             |
| Ambient Temperature                     | 0                   | 25      | 40     | °C     |                             |

**Dimensions & Weight**

Dimensions: 190\*110\*98 (L\*W\*H, mm)

Weight: 4600g (without accessory)

**Optional Accessories**



- Intelligent Photoelectric Sensor(2m)
- DB315 Signal Control

**Vibratory Feeder Controller Expert**

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## SDVC21-XLP

Variable Voltage Digital Controller for Vibratory Feeder



### Model

SDVC21-XLP: 25A

### Features

**IP Grade:** IP67. The controller keeps running well in humid, oily and dusty environment.

**Super Wide Input Operation Voltage:** Input voltage value to the controller could range from 85 to 400 AC.

**Automatic Voltage Regulation:** The internal digital voltage regulation circuit can reduce feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Preset Speeds:** 4 feed speeds can be preset, stored and outputted by connecting external short-circuit signals.

**Dual Switch Sensor ON/OFF Control:** 2 NPN switch sensors or PLCs can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Lightning Protection:** The controller can withstand lightning stroke below 4KV.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Fuse-Short Circuit Protection:** If output of the controller is short-circuited, the fuse inside will be blown to protect the controller and the load.

**Max Adjustable Output Voltage:** Max Adjustable Output Voltage can be preset to protect the load from damage caused by too high voltage.

### Technical Data

| Item                                    | Range               |         |        | Unit   | Note                        |
|---|---------------------|---------|--------|--------|-----------------------------|
|   | Min                 | Typical | Max    |        |                             |
| Input Voltage                           | 85                  | 380     | 440    | V      | AC RMS                      |
| Adjustable Output Voltage Range         | 35                  | ---     | Vin-10 | V      | Half Wave                   |
|   | 45                  |         | Vin-5  |        | Full Wave                   |
| Voltage Adjustment Accuracy             | 1                   |         |        | V      |                             |
| Voltage Regulation Accuracy             | ---                 | ---     | 30     | V      | Vset = 150V<br>ΔVin+ = 70V  |
| Voltage Regulation Response Time        | 0                   | 0.01    | 0.02   | s      |                             |
| Adjustable Output Current Range         | 0                   | ---     | 25     | A      |                             |
| Output Power                            | 0                   | ---     | 9500   | VA     |                             |
| Output Frequency                        | 90                  | 100/120 | 130    | Hz     | Full Wave                   |
|   | 45                  | 50/60   | 65     |        | Half Wave                   |
|   | 30                  | 33/40   | 43     |        | 1/3 Full Wave               |
|   | 22                  | 25/30   | 32     |        | 1/4 Full Wave               |
| Output Waveform                         | Phase Angle Control |         |        |        |                             |
| Soft Start Time                         | 0                   | ---     | 10.0   | s      | Default value: 0.5          |
| On/Off Delay Time Range                 | 0                   | ---     | 9.9    | s      | Default value: 0.2          |
| On/Off Delay Time Accuracy              | 0.1                 |         |        | s      |                             |
| Overheat Protection Trigger Temperature | 58                  | 60      | 66     | °C     |                             |
| DC Control Output Voltage               | 22                  | 24      | 26     | V      |                             |
| DC Control Output Current               | 0                   | ---     | 200    | mA     |                             |
| Analog Control Signal                   | 1~5/4~20            |         |        | V/mA   | Remote Speed Control signal |
| Digital Control Signal                  | 24                  |         |        | V      | Switching Signal            |
| Adjustment Method                       | 4                   |         |        | Button |                             |
| Fuse Capacity                           | 30                  |         |        | A      |                             |
| Standby Power Consumption               | ---                 | 4       | ---    | W      |                             |
| Display Method                          | 4                   |         |        | Digit  | LED                         |
| Ingress Protection Level                | IP67                |         |        |        |                             |
| Ambient Temperature                     | 0                   | 25      | 40     | °C     |                             |

### Dimensions & Weight

Dimensions: 190\*170\*98 (L\*W\*H, mm)

Weight: 5800g (without accessory)

### Optional Accessories



- Intelligent Photoelectric Sensor(2m)
- DB315 Signal Control

### Vibratory Feeder Controller Expert

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**SDVC212-L**

One-Channel Variable Voltage Digital Controller for Vibratory Feeder



**Model**

SDVC212-L: 10A

**Features**

- Automatic Voltage Regulation:** The internal digital voltage regulation circuit can reduce feed speed variation caused by mains voltage fluctuation.
- Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.
- Dual Switch Sensor ON/OFF Control:** 2 NPN/PNP switch sensors or PLCs can be connected to turn on/off the controller.
- Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.
- Rs485 Communication:** All parameters of the controller can be adjusted via Rs485.
- Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC or a 1-5V/1~10V DC signal.
- DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Technical Data**

| Item   | Range                      |         |       | Unit             | Note               |
|--|----------------------------|---------|-------|------------------|--------------------|
|  | Min                        | Typical | Max   |                  |                    |
| Input Voltage                                  | 85                         | 120/230 | 250   | V                | AC RMS             |
| Adjustable Output Voltage Range                | 10                         | ---     | Vin-5 | V                |                    |
| Voltage Adjustment Accuracy                    | 1                          |         |       | V                |                    |
| Voltage Regulation Response Time               | ---                        | 0.02    | ---   | s                |                    |
| F1/F2/F3 Adjustable Output Current Range       | 0                          | ---     | 10    | A                |                    |
| Total Output Maximum Current                   | ---                        | 10      | ---   | A                |                    |
| Total Output Power                             | ---                        | ---     | 2500  | VA               |                    |
| Output Frequency                               | 90                         | 100/120 | 130   | Hz               | Full Wave          |
|  | 45                         | 50/60   | 65    |                  | Half Wave          |
|  | 30                         | 33/40   | 43    |                  | 1/3 Full Wave      |
|  | 22                         | 25/30   | 32    |                  | 1/4 Full Wave      |
| Output Waveform                                | Phase Angle Control        |         |       |                  |                    |
| Soft Start Time                                | 0                          | ---     | 60.0  | s                | Default value: 0.1 |
| Soft Stop Time                                 | 0                          | ---     | 60.0  | s                | Default value: 0.1 |
| Overheat Protection Trigger Temperature        | 58                         | 65      | 66    | °C               |                    |
| Fuse Capacity (Short-Circuit Protection Value) | ---                        | 15      | ---   | A                |                    |
| Fuse I <sup>2</sup> T                          | ---                        | 182.3   | ---   | A <sup>2</sup> s | Fuse Capacity=15 A |
| DC Control Output Voltage                      | 22                         | 24      | 26    | V                |                    |
| Total DC Output Current                        | ---                        | 1.2     | ---   | A                |                    |
| X20/X21/X30/X31/X6.1 DC Output                 | ---                        | 400     | ---   | mA               |                    |
| Digital Control Signal                         | 24                         |         |       | V                | Switching Signal   |
| Analog Control Signal                          | potentiometer, 1-5V, 0-10V |         |       | V                |                    |
| Standby Power Consumption                      | ---                        | 3.5     | ---   | W                |                    |
| Display Method                                 | 2.8 inch color LCD 320*240 |         |       | Dot              | 262K colors        |
| Ambient Temperature                            | 0                          | 25      | 40    | °C               | No Condensation    |
| Ambient Humidity                               | 10                         | 60      | 85    | %                |                    |
| Storage Ambient Temperature                    | -20                        | 25      | 65    | °C               |                    |
| Applicable Altitude                            | <2000                      |         |       | m                |                    |

**Keypad Lock:** Output current can be displayed in real time.

**Output Current Display:** Lock all buttons on the keypad by pressing the ON/OFF button and hold for 2 seconds to prevent misoperation.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Fuse-Short Circuit Protection:** If output of the controller is short-circuited, the fuse inside will be blown to protect the controller and the load.

**Max Adjustable Output Voltage:** Max Adjustable Output Voltage can be preset to protect the load from damage caused by too high voltage.

**Dimensions & Weight**

Dimensions: 205\*93\*94.5 (L\*W\*H, mm)  
Weight: 940g (without accessory)

**Standard Accessories**



• Input Power Cable (2m)

Remark: Input power cable can be customized to fit the socket in your country.

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**SDVC222-XL**

Two-Channel Variable Voltage Digital Controller for Vibratory Feeder



**Model**

SDVC222-XL: 15A

**Features**

**Automatic Voltage Regulation:** The internal digital voltage regulation circuit can reduce feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Dual Switch Sensor ON/OFF Control:** 2 NPN/PNP switch sensors or PLCs can be connected to turn on/off the controller.

**Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.

**RS485 Communication:** All parameters of the controller can be adjusted via Rs485.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC or a 1-5V/ 1~10V DC signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Output current can be displayed in real time.

**Output Current Display:** Lock all buttons on the keypad by pressing the ON/OFF button and hold for 2 seconds to prevent misoperation.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Fuse-Short Circuit Protection:** If output of the controller is short-circuited, the fuse inside will be blown to protect the controller and the load.

**Max Adjustable Output Voltage:** Max Adjustable Output Voltage can be preset to protect the load from damage caused by too high voltage.

**Technical Data**

| Item   | Range                      |         |       | Unit             | Note               |
|--|----------------------------|---------|-------|------------------|--------------------|
|  | Min                        | Typical | Max   |                  |                    |
| Input Voltage                                  | 85                         | 120/230 | 250   | V                | AC RMS             |
| Adjustable Output Voltage Range                | 10                         | ---     | Vin-5 | V                |                    |
| Voltage Adjustment Accuracy                    | 1                          |         |       | V                |                    |
| Voltage Regulation Response Time               | ---                        | 0.02    | ---   | s                |                    |
| F1/F2/F3 Adjustable Output Current Range       | 0                          | ---     | 10    | A                |                    |
| Total Output Maximum Current                   | ---                        | 15      | ---   | A                |                    |
| Total Output Power                             | ---                        | ---     | 2500  | VA               |                    |
| Output Frequency                               | 90                         | 100/120 | 130   | Hz               | Full Wave          |
|  | 45                         | 50/60   | 65    |                  | Half Wave          |
|  | 30                         | 33/40   | 43    |                  | 1/3 Full Wave      |
|  | 22                         | 25/30   | 32    |                  | 1/4 Full Wave      |
| Output Waveform                                | Phase Angle Control        |         |       |                  |                    |
| Soft Start Time                                | 0                          | ---     | 60.0  | s                | Default value: 0.1 |
| Soft Stop Time                                 | 0                          | ---     | 60.0  | s                | Default value: 0.1 |
| Overheat Protection Trigger Temperature        | 58                         | 65      | 66    | °C               |                    |
| Fuse Capacity (Short-Circuit Protection Value) | ---                        | 20      | ---   | A                |                    |
| Fuse I <sup>2</sup> T                          | ---                        | 672     | ---   | A <sup>2</sup> s | Fuse Capacity=20 A |
| DC Control Output Voltage                      | 22                         | 24      | 26    | V                |                    |
| Total DC Output Current                        | ---                        | 1.2     | ---   | A                |                    |
| X20/X21/X30/X31/X6.1 DC Output                 | ---                        | 400     | ---   | mA               |                    |
| Digital Control Signal                         | 24                         |         |       | V                | Switching Signal   |
| Analog Control Signal                          | potentiometer, 1-5V, 0-10V |         |       | V                |                    |
| Standby Power Consumption                      | ---                        | 3.5     | ---   | W                |                    |
| Display Method                                 | 2.8 inch color LCD 320*240 |         |       | Dot              | 262K colors        |
| Ambient Temperature                            | 0                          | 25      | 40    | °C               | No Condensation    |
| Ambient Humidity                               | 10                         | 60      | 85    | %                |                    |
| Storage Ambient Temperature                    | -20                        | 25      | 65    | °C               |                    |
| Applicable Altitude                            | <2000                      |         |       | m                |                    |

**Dimensions & Weight**

Dimensions: 205\*153\*94.5 (L\*W\*H, mm)

Weight: 1300g (without accessory)

**Standard Accessories**



- Input Power Cable (2m)

Remark: Input power cable can be customized to fit the socket in your country.

**Vibratory Feeder Controller Expert**

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**SDVC232-XL**

Three-Channel Variable Voltage Digital Controller for Vibratory Feeder



**Model**

SDVC232-XL: 15A

**Features**

- Automatic Voltage Regulation:** The internal digital voltage regulation circuit can reduce feed speed variation caused by mains voltage fluctuation.
- Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.
- Dual Switch Sensor ON/OFF Control:** 2 NPN/PNP switch sensors or PLCs can be connected to turn on/off the controller.
- Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.
- RS485 Communication:** All parameters of the controller can be adjusted via Rs485.
- Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC or a 1-5V/ 1~10V DC signal.
- DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Technical Data**

| Item   | Range                      |         |       | Unit             | Note               |
|--|----------------------------|---------|-------|------------------|--------------------|
|  | Min                        | Typical | Max   |                  |                    |
| Input Voltage                                  | 85                         | 120/230 | 250   | V                | AC RMS             |
| Adjustable Output Voltage Range                | 10                         | ---     | Vin-5 | V                |                    |
| Voltage Adjustment Accuracy                    | 1                          |         |       | V                |                    |
| Voltage Regulation Response Time               | ---                        | 0.02    | ---   | s                |                    |
| F1/F2/F3 Adjustable Output Current Range       | 0                          | ---     | 10    | A                |                    |
| Total Output Maximum Current                   | ---                        | 15      | ---   | A                |                    |
| Total Output Power                             | ---                        | ---     | 2500  | VA               |                    |
| Output Frequency                               | 90                         | 100/120 | 130   | Hz               | Full Wave          |
|  | 45                         | 50/60   | 65    |                  | Half Wave          |
|  | 30                         | 33/40   | 43    |                  | 1/3 Full Wave      |
|  | 22                         | 25/30   | 32    |                  | 1/4 Full Wave      |
| Output Waveform                                | Phase Angle Control        |         |       |                  |                    |
| Soft Start Time                                | 0                          | ---     | 60.0  | s                | Default value: 0.1 |
| Soft Stop Time                                 | 0                          | ---     | 60.0  | s                | Default value: 0.1 |
| Overheat Protection Trigger Temperature        | 58                         | 65      | 66    | °C               |                    |
| Fuse Capacity (Short-Circuit Protection Value) | ---                        | 20      | ---   | A                |                    |
| Fuse I <sup>2</sup> T                          | ---                        | 672     | ---   | A <sup>2</sup> s | Fuse Capacity=20 A |
| DC Control Output Voltage                      | 22                         | 24      | 26    | V                |                    |
| Total DC Output Current                        | ---                        | 1.2     | ---   | A                |                    |
| X20/X21/X30/X31/X6.1 DC Output                 | ---                        | 400     | ---   | mA               |                    |
| Digital Control Signal                         | 24                         |         |       | V                | Switching Signal   |
| Analog Control Signal                          | potentiometer, 1-5V, 0-10V |         |       | V                |                    |
| Standby Power Consumption                      | ---                        | 3.5     | ---   | W                |                    |
| Display Method                                 | 2.8 inch color LCD 320*240 |         |       | Dot              | 262K colors        |
| Ambient Temperature                            | 0                          | 25      | 40    | °C               | No Condensation    |
| Ambient Humidity                               | 10                         | 60      | 85    | %                |                    |
| Storage Ambient Temperature                    | -20                        | 25      | 65    | °C               |                    |
| Applicable Altitude                            | <2000                      |         |       | m                |                    |

- Keypad Lock:** Output current can be displayed in real time.
- Output Current Display:** Lock all buttons on the keypad by pressing the ON/OFF button and hold for 2 seconds to prevent misoperation.
- Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.
- Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.
- Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.
- Fuse-Short Circuit Protection:** If output of the controller is short-circuited, the fuse inside will be blown to protect the controller and the load.
- Max Adjustable Output Voltage:** Max Adjustable Output Voltage can be preset to protect the load from damage caused by too high voltage.

**Dimensions & Weight**

Dimensions: 205\*203.6\*94.5 (L\*W\*H, mm)  
Weight: 1580g (without accessory)

**Standard Accessories**



● Input Power Cable (2m)

Remark: Input power cable can be customized to fit the socket in your country.

**Vibratory Feeder Controller Expert**

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**SDVC31-S、SDVC31-M**  
Variable Frequency Digital Controller  
for Vibratory Feeder



**Model**

SDVC31-S : 1.5A  
SDVC31-M: 3.0A

**Features**

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Automatic High Precision Voltage Regulation:** The internal digital voltage regulation circuit can eliminate feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Switch Sensor ON/OFF Control:** Adaptive switch sensor or PLC can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

**Technical Data**

| Item                                    | Range    |         |       | Unit   | Note                             |
|---|----------|---------|-------|--------|----------------------------------|
|   | Min      | Typical | Max   |        |                                  |
| Input Voltage                           | 85       | 220     | 250   | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0        | ---     | 260   | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1        |         |       | V      |                                  |
| Voltage Regulation Accuracy             | 0        | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Adjustable Output Current Range         | 0        | ---     | 1.5   | A      | SDVC31-S                         |
|   |          |         | 3.0   |        | SDVC31-M                         |
| Output Power                            | 0        | ---     | 330   | VA     | SDVC31-S                         |
|   |          |         | 660   |        | SDVC31-M                         |
| Output Frequency                        | 40.0     | ---     | 400.0 | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1      |         |       | Hz     |                                  |
| Output Waveform                         | Sine     |         |       |        |                                  |
| Soft Start Time                         | 0        | ---     | 10    | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0        | ---     | 20    | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1      |         |       | s      |                                  |
| Overheat Protection Trigger Temperature | 58       | 60      | 66    | °C     |                                  |
| DC Control Output Current               | 0        | ---     | 200   | mA     |                                  |
| DC Control Output Voltage               | 22       | 24      | 26    | V      |                                  |
| Analog Control Signal                   | 1~5/4~20 |         |       | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24       |         |       | V      | Switching Signal                 |
| Adjustment Method                       | 6        |         |       | Button |                                  |
| Standby Power Consumption               | ---      | 3       | ---   | W      |                                  |
| Display Method                          | 5        |         |       | Digit  | LED                              |
| Ambient Temperature                     | 0        | 25      | 40    | °C     | No Condensation                  |
| Ambient Humidity                        | 10       | 60      | 85    | %      |                                  |
| Storage Ambient Temperature             | -20      | 25      | 65    | °C     |                                  |

**Dimensions & Weight**

Dimensions: 190\*53.6\*94.5 (L\*W\*H, mm)  
Weight: SDVC31-S: 560g (without accessory)  
SDVC31-M: 610g (without accessory)

**Standard Accessories**



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

**Optional Accessories**



- Intelligent Photoelectric Sensor(1.5m)

**Vibratory Feeder Controller Expert**

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**SDVC311-S、SDVC311-M**  
Variable Frequency Digital Controller  
for Vibratory Feeder



**Model**

SDVC311-S : 1.5A  
SDVC311-M: 3.0A

**Features**

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Automatic High Precision Voltage Regulation:** The internal digital voltage regulation circuit can eliminate feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start/Shutdown:** During startup or shutdown, the output voltage will gradually change to avoid sudden shake. Soft start/shutdown time can be digitally preset.

**Switch Sensor ON/OFF Control:** Adaptive switch sensor or PLC can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Over/Under-Voltage Protection:** When the input voltage is too high/low, the power supply will be automatically turned off for self-protection.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

**Technical Data**

| Item                                    | Range    |         |           | Unit   | Note                             |
|---|----------|---------|-----------|--------|----------------------------------|
|   | Min      | Typical | Max       |        |                                  |
| Input Voltage                           | 85       | 220     | 250       | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0        | ---     | 260       | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1        |         |           | V      |                                  |
| Voltage Regulation Accuracy             | 0        | ---     | 10        | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Adjustable Output Current Range         | 0        | ---     | 1.5       | A      | SDVC311-S                        |
|   |          |         | 3.0       |        | SDVC311-M                        |
| Output Power                            | 0        | ---     | 330       | VA     | SDVC311-S                        |
|   |          |         | 660       |        | SDVC311-M                        |
| Output Frequency                        | 40.0/5.0 | ---     | 400.0     | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1      |         |           | Hz     |                                  |
| Output Waveform                         | Sine     |         |           |        |                                  |
| Soft Start Time                         | 0        | ---     | 10        | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0        | ---     | 20.0/99.9 | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1      |         |           | s      |                                  |
| Overheat Protection Trigger Temperature | 58       | 60      | 66        | °C     |                                  |
| DC Control Output Current               | 0        | ---     | 400       | mA     |                                  |
| DC Control Output Voltage               | 22       | 24      | 26        | V      |                                  |
| Analog Control Signal                   | 1~5/4~20 |         |           | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24       |         |           | V      | Switching Signal                 |
| Adjustment Method                       | 6        |         |           | Button |                                  |
| Standby Power Consumption               | ---      | 3       | ---       | W      |                                  |
| Display Method                          | 5        |         |           | Digit  | LED                              |
| Ambient Temperature                     | 0        | 25      | 40        | °C     | No Condensation                  |
| Ambient Humidity                        | 10       | 60      | 85        | %      |                                  |
| Storage Ambient Temperature             | -20      | 25      | 65        | °C     |                                  |

Note: "xxx/xxx" indicates "Traditional Parameter values / Modern Parameter values" .

**Dimensions & Weight**

Dimensions: 190\*53.6\*94.5 (L\*W\*H, mm)  
Weight: SDVC311-S: 560g (without accessory)  
SDVC311-M: 610g (without accessory)

**Standard Accessories**



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

**Optional Accessories**



- Intelligent Photoelectric Sensor(1.5m)

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**SDVC31-L、SDVC31-XL**  
Variable Frequency Digital Controller  
for Vibratory Feeder



**Model**

SDVC31-L: 4.5A  
SDVC31-XL: 6.0A

**Features**

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Automatic High Precision Voltage Regulation:** The internal digital voltage regulation circuit can eliminate feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Switch Sensor ON/OFF Control:** 1 NPN/PNP switch sensor or PLC can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

**Technical Data**

| Item                                    | Range    |         |       | Unit   | Note                             |
|---|----------|---------|-------|--------|----------------------------------|
|   | Min      | Typical | Max   |        |                                  |
| Input Voltage                           | 85       | 220     | 250   | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0        | ---     | 260   | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1        |         |       | V      |                                  |
| Voltage Regulation Accuracy             | 0        | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Adjustable Output Current Range         | 0        | ---     | 4.5   | A      | SDVC31-L                         |
|   |          |         | 6     |        | SDVC31-XL                        |
| Output Power                            | 0        | ---     | 990   | VA     | SDVC31-L                         |
|   |          |         | 1320  |        | SDVC31-XL                        |
| Output Frequency                        | 40.0     | ---     | 400.0 | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1      |         |       | Hz     |                                  |
| Output Waveform                         | Sine     |         |       |        |                                  |
| Soft Start Time                         | 0        | ---     | 10    | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0        | ---     | 20    | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1      |         |       | s      |                                  |
| Overheat Protection Trigger Temperature | 60       | 65      | 65    | °C     |                                  |
| DC Control Output Current               | 0        | ---     | 200   | mA     |                                  |
| DC Control Output Voltage               | 22       | 24      | 26    | V      |                                  |
| Analog Control Signal                   | 1~5/4~20 |         |       | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24       |         |       | V      | Switching Signal                 |
| Adjustment Method                       | 6        |         |       | Button |                                  |
| Standby Power Consumption               | ---      | 3       | ---   | W      |                                  |
| Display Method                          | 5        |         |       | Digit  | LED                              |
| Ambient Temperature                     | 0        | 25      | 40    | °C     | No Condensation                  |
| Ambient Humidity                        | 10       | 60      | 85    | %      |                                  |
| Storage Ambient Temperature             | -20      | 25      | 65    | °C     |                                  |

**Dimensions & Weight**

Dimensions: 190\*147.8\*94.5 (L\*W\*H, mm)  
Weight: SDVC31-L: 1675g (without accessory)  
SDVC31-XL: 1720g (without accessory)

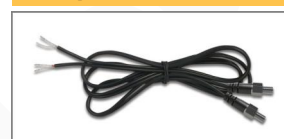
**Standard Accessories**



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

**Optional Accessories**



- Intelligent Photoelectric Sensor(1.5m)

**Vibratory Feeder Controller Expert**

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## SDVC311-XL

Variable Frequency Digital Controller  
for Vibratory Feeder



### Model

SDVC311-XL: 6.0A

### Features

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Automatic High Precision Voltage Regulation:** The internal digital voltage regulation circuit can eliminate feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start/Shutdown:** During startup or shutdown, the output voltage will gradually change to avoid sudden shake. Soft start/shutdown time can be digitally preset.

**Switch Sensor ON/OFF Control:** Adaptive switch sensor or PLC can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Over/Under-Voltage Protection:** When the input voltage is too high/low, the power supply will be automatically turned off for self-protection.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

### Technical Data

| Item                                    | Range    |         |           | Unit   | Note                             |
|---|----------|---------|-----------|--------|----------------------------------|
|   | Min      | Typical | Max       |        |                                  |
| Input Voltage                           | 85       | 220     | 250       | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0        | ---     | 260       | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1        |         |           | V      |                                  |
| Voltage Regulation Accuracy             | 0        | ---     | 10        | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Adjustable Output Current Range         | 0        | ---     | 6         | A      |                                  |
| Output Power                            | 0        | ---     | 1320      | VA     |                                  |
| Output Frequency                        | 40.0/5.0 | ---     | 400.0     | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1      |         |           | Hz     |                                  |
| Output Waveform                         | Sine     |         |           |        |                                  |
| Soft Start Time                         | 0        | ---     | 10        | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0        | ---     | 20.0/99.9 | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1      |         |           | s      |                                  |
| Overheat Protection Trigger Temperature | 60       | 65      | 65        | °C     |                                  |
| DC Control Output Current               | 0        | ---     | 400       | mA     |                                  |
| DC Control Output Voltage               | 22       | 24      | 26        | V      |                                  |
| Analog Control Signal                   | 1~5/4~20 |         |           | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24       |         |           | V      | Switching Signal                 |
| Adjustment Method                       | 6        |         |           | Button |                                  |
| Standby Power Consumption               | ---      | 3       | ---       | W      |                                  |
| Display Method                          | 5        |         |           | Digit  | LED                              |
| Ambient Temperature                     | 0        | 25      | 40        | °C     | No Condensation                  |
| Ambient Humidity                        | 10       | 60      | 85        | %      |                                  |
| Storage Ambient Temperature             | -20      | 25      | 65        | °C     |                                  |

Note: "xxx/xxx" indicates "Traditional Parameter values / Modern Parameter values" .

### Dimensions & Weight

Dimensions: 190\*147.8\*94.5 (L\*W\*H, mm)

Weight: 1720g (without accessory)

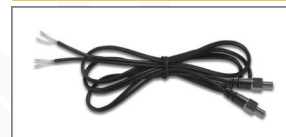
### Standard Accessories



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

### Optional Accessories



- Intelligent Photoelectric Sensor(1.5m)

### Vibratory Feeder Controller Expert

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## SDVC31-XLP

Variable Frequency Digital Controller  
for Vibratory Feeder



## Model

SDVC31-XLP: 6A

## Features

**IP Grade:** IP67. The controller keeps running well in humid, oily and dusty environment.

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Switch Sensor ON/OFF Control:** 1 NPN switch sensor or PLC can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

**Lightning Protection:** The controller can withstand lightning stroke below 2KV.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

## Technical Data

| Item                                    | Range    |         |       | Unit   | Note                             |
|---|----------|---------|-------|--------|----------------------------------|
|   | Min      | Typical | Max   |        |                                  |
| Input Voltage                           | 85       | 220     | 250   | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0        | ---     | 260   | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1        |         |       | V      |                                  |
| Voltage Regulation Accuracy             | 0        | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Adjustable Output Current Range         | 0        | ---     | 6     | A      |                                  |
| Output Power                            | 0        | ---     | 1320  | VA     |                                  |
| Output Frequency                        | 40.0     | ---     | 400.0 | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1      |         |       | Hz     |                                  |
| Output Waveform                         | Sine     |         |       |        |                                  |
| Soft Start Time                         | 0        | ---     | 10    | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0        | ---     | 20    | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1      |         |       | s      |                                  |
| Overheat Protection Trigger Temperature | 60       | 65      | 65    | °C     |                                  |
| DC Control Output Current               | 0        | ---     | 200   | mA     |                                  |
| DC Control Output Voltage               | 22       | 24      | 26    | V      |                                  |
| Analog Control Signal                   | 1~5/4~20 |         |       | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24       |         |       | V      | Switching Signal                 |
| Adjustment Method                       | 6        |         |       | Button |                                  |
| Standby Power Consumption               | ---      | 4       | ---   | W      |                                  |
| Display Method                          | 5        |         |       | Digit  | LED                              |
| Ingress Protection Level                | IP67     |         |       |        |                                  |
| Ambient Temperature                     | 0        | 25      | 40    | °C     |                                  |

## Dimensions & Weight

Dimensions: 190\*170\*98 (L\*W\*H, mm)

Weight: 5800g (without accessory)

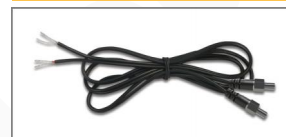
## Standard Accessories



- Input Power Cable (2m)
- Output Power Cable (2m)

Remark: Input power cable can be customized to fit the socket in your country.

## Optional Accessories



- Intelligent Photoelectric Sensor(2m)

## Vibratory Feeder Controller Expert

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## SDVC31-U

Variable Frequency Digital Controller  
for Vibratory Feeder



## Model

SDVC31-U: 10A

## Features

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Automatic High Precision Voltage Regulation:** The internal digital voltage regulation circuit can eliminate feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Switch Sensor ON/OFF Control:** 1 NPN/PNP switch sensor or PLC can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

## Technical Data

| Item                                    | Range    |         |       | Unit   | Note                             |
|---|----------|---------|-------|--------|----------------------------------|
|   | Min      | Typical | Max   |        |                                  |
| Input Voltage                           | 85       | 220     | 250   | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0        | ---     | 260   | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1        |         |       | V      |                                  |
| Voltage Regulation Accuracy             | 0        | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Adjustable Output Current Range         | 0        | ---     | 10    | A      |                                  |
| Output Power                            | 0        | ---     | 2200  | VA     |                                  |
| Output Frequency                        | 40.0     | ---     | 400.0 | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1      |         |       | Hz     |                                  |
| Output Waveform                         | Sine     |         |       |        |                                  |
| Soft Start Time                         | 0        | ---     | 10    | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0        | ---     | 20    | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1      |         |       | s      |                                  |
| Overheat Protection Trigger Temperature | 60       | 65      | 65    | °C     |                                  |
| DC Control Output Current               | 0        | ---     | 200   | mA     |                                  |
| DC Control Output Voltage               | 22       | 24      | 26    | V      |                                  |
| Analog Control Signal                   | 1~5/4~20 |         |       | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24       |         |       | V      | Switching Signal                 |
| Adjustment Method                       | 6        |         |       | Button |                                  |
| Standby Power Consumption               | ---      | 3       | ---   | W      |                                  |
| Display Method                          | 5        |         |       | Digit  | LED                              |
| Ambient Temperature                     | 0        | 25      | 40    | °C     | No Condensation                  |
| Ambient Humidity                        | 10       | 60      | 85    | %      |                                  |
| Storage Ambient Temperature             | -20      | 25      | 65    | °C     |                                  |

## Dimensions & Weight

Dimensions: 190\*242\*94.5 (L\*W\*H, mm)

Weight: 2670g (without accessory)

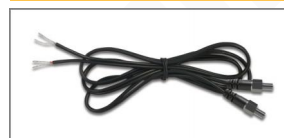
## Standard Accessories



- Input Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

## Optional Accessories



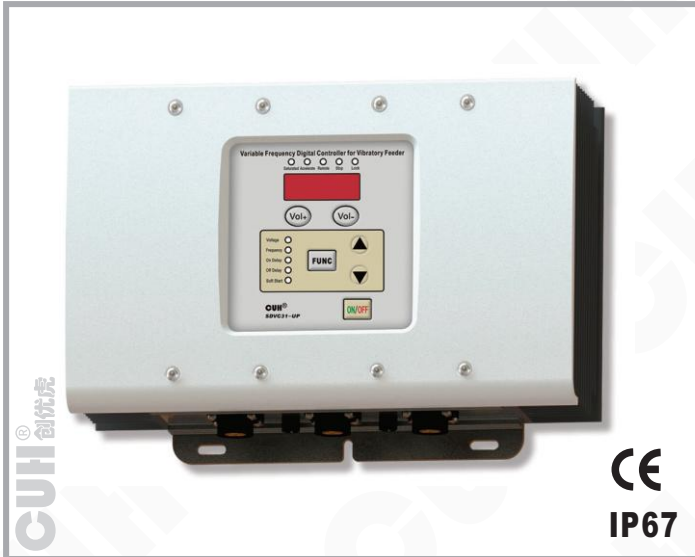
- Intelligent Photoelectric Sensor(1.5m)

## Vibratory Feeder Controller Expert

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## SDVC31-UP

Variable Frequency Digital Controller  
for Vibratory Feeder



## Model

SDVC31-UP: 10A

## Features

**IP Grade:** IP67. The controller keeps running well in humid, oily and dusty environment.

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Switch Sensor ON/OFF Control:** 1 NPN switch sensor or PLC can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

**Lightning Protection:** The controller can withstand lightning stroke below 2KV.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

## Technical Data

| Item                                    | Range    |         |       | Unit   | Note                             |
|---|----------|---------|-------|--------|----------------------------------|
|   | Min      | Typical | Max   |        |                                  |
| Input Voltage                           | 85       | 220     | 250   | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0        | ---     | 260   | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1        |         |       | V      |                                  |
| Voltage Regulation Accuracy             | 0        | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Adjustable Output Current Range         | 0        | ---     | 10    | A      |                                  |
| Output Power                            | 0        | ---     | 2200  | VA     |                                  |
| Output Frequency                        | 40.0     | ---     | 400.0 | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1      |         |       | Hz     |                                  |
| Output Waveform                         | Sine     |         |       |        |                                  |
| Soft Start Time                         | 0        | ---     | 10    | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0        | ---     | 20    | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1      |         |       | s      |                                  |
| Overheat Protection Trigger Temperature | 60       | 65      | 65    | °C     |                                  |
| DC Control Output Current               | 0        | ---     | 200   | mA     |                                  |
| DC Control Output Voltage               | 22       | 24      | 26    | V      |                                  |
| Analog Control Signal                   | 1~5/4~20 |         |       | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24       |         |       | V      | Switching Signal                 |
| Adjustment Method                       | 6        |         |       | Button |                                  |
| Standby Power Consumption               | ---      | 4       | ---   | W      |                                  |
| Display Method                          | 5        |         |       | Digit  | LED                              |
| Ingress Protection Level                | IP67     |         |       |        |                                  |
| Ambient Temperature                     | 0        | 25      | 40    | °C     |                                  |

## Dimensions & Weight

Dimensions: 190\*260\*98 (L\*W\*H, mm)

Weight: 9500g (without accessory)

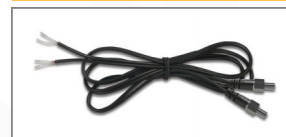
## Standard Accessories



- Input Power Cable (2m)
- Output Power Cable (2m)

Remark: Input power cable can be customized to fit the socket in your country.

## Optional Accessories



- Intelligent Photoelectric Sensor(2m)

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**SDVC33-M**  
Dual Channel Digital Variable Frequency  
Vibratory Feeder Controller



**Model**

SDVC33-M: Dual channel combined current up to 3.5A

**Features**

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Automatic High Precision Voltage Regulation:** The internal digital voltage regulation circuit can eliminate feed speed variation caused by mains voltage fluctuation.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Soft Shutdown/Braking:** It can be set for 0.0~10.0 seconds, which is used to slowly stop the vibration of the feeder. Quickly stops the feeder by shifting the current phase by 180° during soft shutdown.

**Switch Sensor ON/OFF Control:** Adaptive switch sensor or PLC can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Overheat/Undercooling Protection:** If internal temperature of the controller gets too high/low, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

**Technical Data**

| Item                                    | Range                 |         |       | Unit   | Note   |
|---|-----------------------|---------|-------|--------|--|
|   | Min                   | Typical | Max   |        |  |
| Input Voltage                           | 85                    | 220     | 250   | V      | AC RMS   |
| Adjustable Output Voltage Range         | 0                     | ---     | 260   | V      | Lower than 150% of Input Voltage                     |
| Voltage Adjustment Accuracy             | 1                     |         |       | V      |  |
| Voltage Regulation Accuracy             | 0                     | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$                       |
| Adjustable Output Current Range         | 0                     | ---     | 3.5   | A      | The combined current can be distributed arbitrarily. |
| Output Power                            | 0                     | ---     | 770   | VA     |  |
| Output Frequency                        | 5.0                   | ---     | 999.9 | Hz     |  |
| Frequency Adjustment Accuracy           | 0.1                   |         |       | Hz     |  |
| Output Waveform                         | Sine                  |         |       |        |  |
| Soft Start Time                         | 0                     | ---     | 10    | s      | Default value: 0.5                                   |
| On/Off Delay Time Range                 | 0                     | ---     | 99.9  | s      | Default value: 0.2                                   |
| On/Off Delay Time Accuracy              | 0.1                   |         |       | s      |  |
| Overheat Protection Trigger Temperature | ---                   | 65      | ---   | °C     | 60°C return to normal                                |
| DC Control Output Current               | 0                     | ---     | 350   | mA     | Both channels A & B are supported                    |
| 24V Output Current                      | ---                   | ---     | 700   | mA     | Channel A & B output sum                             |
| DC Control Output Voltage               | 22                    | 24      | 26    | V      |  |
| Analog Control Signal                   | 4-20/1-5              |         |       | mA/V   |  |
| Digital Control Signal                  | 24                    |         |       | V      | Switching Signal                                     |
| Adjustment Method                       | 6                     |         |       | Button |  |
| Standby Power Consumption               | ---                   | 3       | ---   | W      |  |
| Display Method                          | 5                     |         |       | Digit  | LED  |
| Weight                                  | 850                   |         |       | g      | Without Accessory                                    |
| Dimensions                              | 190*61.8*94.5 (L*W*H) |         |       | mm     |  |
| Ingress Protection Level                | IP20                  |         |       |        |  |
| Ambient Temperature                     | 0                     | 25      | 40    | °C     | No Condensation                                      |
| Ambient Humidity                        | 10                    | 60      | 85    | %      |  |
| Storage Ambient Temperature             | -20                   | 25      | 65    | °C     |  |
| Applicable Altitude                     | <2000                 |         |       | m      |  |

**Dimensions & Weight**

Dimensions: 190\*61.8\*94.5 (L\*W\*H, mm)

Weight: 850g (without accessory)

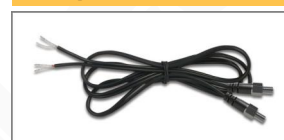
**Standard Accessories**



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)\*2

Remark: Input power cable can be customized to fit the socket in your country.

**Optional Accessories**



- Intelligent Photoelectric Sensor(1.5m)

**Vibratory Feeder Controller Expert**

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**SDVC34-M Series**  
Variable Frequency Intelligent Controller  
for Vibratory Feeder



**Technical Data**

| Item                                    | Range                   |         |      | Unit   | Note                             |
|---|-------------------------|---------|------|--------|----------------------------------|
|   | Min                     | Typical | Max  |        |                                  |
| Input Voltage                           | 85                      | 220     | 250  | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0                       | ---     | 260  | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1                       |         |      | V      |                                  |
| Voltage Regulation Accuracy             | 0                       | ---     | 10   | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Response Time of Voltage Regulation     | 0.0025                  | ---     | 0.04 | s      | the period of output voltage     |
| Adjustable Output Current Range         | 0                       | ---     | 3    | A      |                                  |
| Output Power                            | 0                       | ---     | 660  | VA     |                                  |
| Output Frequency                        | 25                      | ---     | 400  | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1                     |         |      | Hz     |                                  |
| Output Waveform                         | Sine                    |         |      |        |                                  |
| Soft Start Time                         | 0                       | ---     | 10   | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0                       | ---     | 99.9 | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1                     |         |      | s      |                                  |
| Overheat Protection Trigger Temperature | 60                      | 65      | 65   | °C     |                                  |
| Digital Communication                   | ModBUS485 Communication |         |      |        |                                  |
| DC Control Output Current               | 0                       | ---     | 350  | mA     |                                  |
| DC Control Output Voltage               | 22                      | 24      | 26   | V      |                                  |
| Analog Control Signal                   | 1~5/4~20                |         |      | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24                      |         |      | V      | Switching Signal                 |
| Adjustment Method                       | 6                       |         |      | Button |                                  |
| Standby Power Consumption               | ---                     | 5       | ---  | W      |                                  |
| Display Method                          | 5                       |         |      | Digit  | LED                              |
| Ambient Temperature                     | 0                       | 25      | 40   | °C     | No Condensation                  |
| Ambient Humidity                        | 10                      | 60      | 85   | %      |                                  |
| Storage Ambient Temperature             | -20                     | 25      | 65   | °C     |                                  |

**Model**

SDVC34-MR: 3A, Autotune Controller(RS485)  
SDVC34-MRJ: 3A, Autotune Controller(RS485 & Counting)

**Features**

**Automatic Constant Feed Speed Control:** Automatic output voltage adjustment in real time to ensure constant preset feed speed regardless of weight change of the workpieces.

**Automatic Frequency Adjustment:** Automatic output frequency adjustment in real time to make sure the load is always working at its resonant frequency.

**Automatic Resonant Frequency Search:** Search out and output resonant frequency of the load. Other related parameters are also set automatically.

**Counting:** Count number of the workpieces. The controller will slow down or stop when count up to preset value. (available on SDVC34-MRJ)

**RS485 Communication:** All parameters of the controller can be adjusted via RS485.

**Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.

**Sync Output:** Sync output waveform of the slave controller with that of the master controller to the same frequency and phase to avoid beat effect.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

**Dimensions & Weight**

Dimensions: 190\*56\*94.5 (L\*W\*H, mm)  
Weight: 560g (without accessory)

**Standard Accessories**



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)
- Vibration Sensor (32g, 2m)

Remark: Input power cable can be customized to fit the socket in your country.

**Optional Accessories**



- Vibration Sensor (8g, 2m)
- Vibration Sensor (16g, 2m)
- Vibration Sensor (64g, 2m)

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## SDVC34-XL Series

Variable Frequency Intelligent Controller for Vibratory Feeder



### Technical Data

| Item                                    | Range                   |         |      | Unit   | Note                             |
|---|-------------------------|---------|------|--------|----------------------------------|
|   | Min                     | Typical | Max  |        |                                  |
| Input Voltage                           | 85                      | 220     | 250  | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0                       | ---     | 260  | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1                       |         |      | V      |                                  |
| Voltage Regulation Accuracy             | 0                       | ---     | 10   | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Response Time of Voltage Regulation     | 0.0025                  | ---     | 0.04 | s      | the period of output voltage     |
| Adjustable Output Current Range         | 0                       | ---     | 6    | A      |                                  |
| Output Power                            | 0                       | ---     | 1320 | VA     |                                  |
| Output Frequency                        | 25                      | ---     | 400  | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1                     |         |      | Hz     |                                  |
| Output Waveform                         | Sine                    |         |      |        |                                  |
| Soft Start Time                         | 0                       | ---     | 10   | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0                       | ---     | 20   | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1                     |         |      | s      |                                  |
| Overheat Protection Trigger Temperature | 60                      | 65      | 65   | °C     |                                  |
| Digital Communication                   | ModBUS485 Communication |         |      |        |                                  |
| DC Control Output Current               | 0                       | ---     | 200  | mA     |                                  |
| DC Control Output Voltage               | 22                      | 24      | 26   | V      |                                  |
| Analog Control Signal                   | 1~5/4~20                |         |      | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24                      |         |      | V      | Switching Signal                 |
| Adjustment Method                       | 6                       |         |      | Button |                                  |
| Standby Power Consumption               | ---                     | 7       | ---  | W      |                                  |
| Display Method                          | 5                       |         |      | Digit  | LED                              |
| Ambient Temperature                     | 0                       | 25      | 40   | °C     | No Condensation                  |
| Ambient Humidity                        | 10                      | 60      | 85   | %      |                                  |
| Storage Ambient Temperature             | -20                     | 25      | 65   | °C     |                                  |

### Model

SDVC34-XLR: 6A, Autotune Controller (RS485)

SDVC34-XLJ: 6A, Autotune Controller (Counting)

### Features

**Automatic Constant Feed Speed Control:** Automatic output voltage adjustment in real time to ensure constant preset feed speed regardless of weight change of the workpieces.

**Automatic Frequency Adjustment:** Automatic output frequency adjustment in real time to make sure the load is always working at its resonant frequency.

**Automatic Resonant Frequency Search:** Search out and output resonant frequency of the load. Other related parameters are also set automatically.

**Counting:** Count number of the workpieces. The controller will slow down or stop when count up to preset value. (available on SDVC34-XLJ)

**RS485 Communication:** All parameters of the controller can be adjusted via RS485.

**Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.

**Sync Output:** Sync output waveform of the slave controller with that of the master controller to the same frequency and phase to avoid beat effect.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

### Dimensions & Weight

Dimensions: 190\*147.8\*94.5 (L\*W\*H, mm)

Weight: 1930g (without accessory)

### Standard Accessories



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)
- Vibration Sensor (32g, 2m)

Remark: Input power cable can be customized to fit the socket in your country.

### Optional Accessories



- Vibration Sensor (8g, 2m)
- Vibration Sensor (16g, 2m)
- Vibration Sensor (64g, 2m)

### Vibratory Feeder Controller Expert

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## SDVC34-UR

Variable Frequency Intelligent Controller for Vibratory Feeder



### Technical Data

| Item                                    | Range                   |         |      | Unit   | Note                             |
|---|-------------------------|---------|------|--------|----------------------------------|
|   | Min                     | Typical | Max  |        |                                  |
| Input Voltage                           | 85                      | 220     | 250  | V      | AC RMS                           |
| Adjustable Output Voltage Range         | 0                       | ---     | 260  | V      | Lower than 150% of Input Voltage |
| Voltage Adjustment Accuracy             | 1                       |         |      | V      |                                  |
| Voltage Regulation Accuracy             | 0                       | ---     | 10   | %      | $\Delta V_{out}/\Delta V_{in}$   |
| Response Time of Voltage Regulation     | 0.0025                  | ---     | 0.04 | s      | the period of output voltage     |
| Adjustable Output Current Range         | 0                       | ---     | 10   | A      |                                  |
| Output Power                            | 0                       | ---     | 2200 | VA     |                                  |
| Output Frequency                        | 25                      | ---     | 400  | Hz     |                                  |
| Frequency Adjustment Accuracy           | 0.1                     |         |      | Hz     |                                  |
| Output Waveform                         | Sine                    |         |      |        |                                  |
| Soft Start Time                         | 0                       | ---     | 10   | s      | Default value: 0.5               |
| On/Off Delay Time Range                 | 0                       | ---     | 20   | s      | Default value: 0.2               |
| On/Off Delay Time Accuracy              | 0.1                     |         |      | s      |                                  |
| Overheat Protection Trigger Temperature | 60                      | 65      | 65   | °C     |                                  |
| Digital Communication                   | ModBUS485 Communication |         |      |        |                                  |
| DC Control Output Current               | 0                       | ---     | 200  | mA     |                                  |
| DC Control Output Voltage               | 22                      | 24      | 26   | V      |                                  |
| Analog Control Signal                   | 1~5/4~20                |         |      | V/mA   | Remote Speed Control signal      |
| Digital Control Signal                  | 24                      |         |      | V      | Switching Signal                 |
| Adjustment Method                       | 6                       |         |      | Button |                                  |
| Standby Power Consumption               | ---                     | 5       | ---  | W      |                                  |
| Display Method                          | 5                       |         |      | Digit  | LED                              |
| Ambient Temperature                     | 0                       | 25      | 40   | °C     | No Condensation                  |
| Ambient Humidity                        | 10                      | 60      | 85   | %      |                                  |
| Storage Ambient Temperature             | -20                     | 25      | 65   | °C     |                                  |

### Model

SDVC34-UR: 10A, Autotune Controller(RS485)

### Features

**Automatic Constant Feed Speed Control:** Automatic output voltage adjustment in real time to ensure constant preset feed speed regardless of weight change of the workpieces.

**Automatic Frequency Adjustment:** Automatic output frequency adjustment in real time to make sure the load is always working at its resonant frequency.

**Automatic Resonant Frequency Search:** Search out and output resonant frequency of the load. Other related parameters are also set automatically.

**RS485 Communication:** All parameters of the controller can be adjusted via RS485.

**Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.

**Sync Output:** Sync output waveform of the slave controller with that of the master controller to the same frequency and phase to avoid beat effect.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

### Dimensions & Weight

Dimensions: 190\*242\*94.5 (L\*W\*H, mm)

Weight: 2670g (without accessory)

### Standard Accessories



- Input Power Cable (1.5m)



- Vibration Sensor (32g, 2m)

Remark: Input power cable can be customized to fit the socket in your country.

### Optional Accessories



- Vibration Sensor (8g, 2m)
- Vibration Sensor (16g, 2m)
- Vibration Sensor (64g, 2m)

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**SDVC341-M**

**Automatic Frequency Controller for Vibratory Feeder**



**Model**

SDVC341-M: 3A

**Features**

**Automatic Constant Feed Speed Control:** Automatic output voltage adjustment in real time to ensure constant preset feed speed regardless of weight change of the workpieces.

**Automatic Frequency Adjustment:** Automatic output frequency adjustment in real time to make sure the load is always working at its resonant frequency.

**Constant Amplitude Frequency Search:** Ensure that two vibratory feeders with a small gap do not collide during the frequency search process.

**PFC Booster:** It can maintain a maximum output voltage of 250V when inputting 110V or 220V.

**Counting:** Count number of the workpieces. The controller will slow down or stop when count up to preset value.

**RS485 Communication:** RS485 interface supports ModbusASCII, Modbus RTU protocol.

**Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.

**Digital Synchronous Communication:** The remote voltage, frequency, phase and other parameters of the controller can be distributed through digital synchronous communication CUHBus-DS<sup>®</sup>, so as to realize the parameter backup and restoration of all controllers (up to 8 units) in the entire network.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

**Technical Data**

| Item                                    | Range                            |         |       | Unit   | Note                                 |
|---|----------------------------------|---------|-------|--------|--------------------------------------|
|   | Min                              | Typical | Max   |        |                                      |
| Input Voltage                           | 85                               | 220     | 250   | V      | AC RMS                               |
| Adjustable Output Voltage Range         | 0                                | ---     | 250   | V      |                                      |
| Voltage Adjustment Accuracy             | 1                                |         |       | V      |                                      |
| Voltage Regulation Accuracy             | 0                                | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$       |
| Response Time of Voltage Regulation     | Real Time                        |         |       | s      | Voltage regulation for each waveform |
| Adjustable Output Current Range         | 0                                | ---     | 3     | A      |                                      |
| Output Power                            | 0                                | ---     | 660   | VA     |                                      |
| Output Frequency                        | 5.0                              | ---     | 999.9 | Hz     |                                      |
| Frequency Adjustment Accuracy           | 0.1                              |         |       | Hz     |                                      |
| Output Waveform                         | Sine                             |         |       |        |                                      |
| Soft Start Time                         | 0                                | ---     | 40.0  | s      | Default value: 0.5                   |
| On/Off Delay Time Range                 | 0.0                              | ---     | 99.9  | s      | Default value: 0.2                   |
| On/Off Delay Time Accuracy              | 0.1                              |         |       | s      |                                      |
| Overheat Protection Trigger Temperature | 60                               | 65      | 65    | °C     |                                      |
| Digital Communication                   | ModBUS485/CUHBus-DS <sup>®</sup> |         |       |        |                                      |
| DC Control Output Current               | 0                                | ---     | 400   | mA     |                                      |
| DC Control Output Voltage               | 22                               | 24      | 26    | V      |                                      |
| Analog Control Signal                   | 4~20                             |         |       | mA     | remote speed control current         |
|   | 1~5/0~5/0~10                     |         |       | V      | remote speed control voltage         |
| Digital Control Signal                  | 24                               |         |       | V      | Switching Signal                     |
| Adjustment Method                       | 7                                |         |       | Button |                                      |
| Standby Power Consumption               | ---                              | ---     | 5     | W      |                                      |
| Display Method                          | 128*128                          |         |       |        | Matrix Display                       |
| Ingress Protection Level                | IP10                             |         |       |        |                                      |
| Ambient Temperature                     | 0                                | 25      | 40    | °C     | No Condensation                      |
| Ambient Humidity                        | 10                               | 60      | 85    | %      |                                      |
| Storage Ambient Temperature             | -20                              | 25      | 65    | °C     |                                      |

**Dimensions & Weight**

Dimensions: 190\*56\*94.5 (L\*W\*H, mm)  
Weight: 560g (without accessory)

**Standard Accessories**



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)
- Vibration Sensor (32g, 2m)

Remark: Input power cable can be customized to fit the socket in your country.

**Optional Accessories**



- Vibration Sensor (8g, 2m)
- Vibration Sensor (16g, 2m)
- Vibration Sensor (64g, 2m)

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**SDVC35 Series**  
Variable Frequency Intelligent Controller  
for Vibratory Feeder



**Model**

SDVC35-MRJ: 3.0A Autotune Controller  
SDVC35-LRJ: 4.5A Autotune Controller

**Features**

**Automatic Constant Feed Speed Control:** Automatic output voltage adjustment in real time to ensure constant preset feed speed regardless of weight change of the workpieces.

**Automatic Frequency Adjustment:** Automatic output frequency adjustment in real time to make sure the load is always working at its resonant frequency.

**Automatic Resonant Frequency Search:** Search out and output resonant frequency of the load. Other related parameters are also set automatically.

**Counting:** Count number of the feed material. The controller will slow down or stop when count up to preset value.

**RS485 Communication:** All parameters of the controller can be adjusted via RS485.

**Network Communication:** All parameters of the controller can be adjusted via network communication.

**Output Current Display:** Output current can be displayed in real time.

**Firmware Upgrade:** Firmware can be upgraded remotely.

**Type of Control Output:** Push-pull type.

**Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.

**Sync Output:** Sync output waveform of the slave controller with that of the master controller to the same frequency and phase to avoid beat effect.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, or a DC signal.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

**Technical Data**

| Item                                    | Range                     |         |     | Unit | Note                                   |
|---|---------------------------|---------|-----|------|--|
|   | Min                       | Typical | Max |      |  |
| Input Voltage                           | 85                        | 220     | 250 | V    | AC RMS                                 |
| Adjustable Output Voltage Range         | 0                         | ---     | 260 | V    | Lower than 150% of Input Voltage       |
| Voltage Adjustment Accuracy             | 1                         |         |     | V    |  |
| Voltage Regulation Accuracy             | 0                         | ---     | 10  | %    | $\Delta V_{out}/\Delta V_{in}$         |
| Response Time of Voltage Regulation     | Real Time                 |         |     | s    | Voltage regulation for each waveform   |
| Adjustable Output Current Range         | 0                         | ---     | 3   | A    | SDVC35-MRJ                             |
|   | 0                         | ---     | 4.5 |      | SDVC35-LRJ                             |
| Output Power                            | 0                         | ---     | 660 | VA   | SDVC35-MRJ                             |
|   | 0                         | ---     | 990 |      | SDVC35-LRJ                             |
| Output Frequency                        | 25                        | ---     | 400 | Hz   |  |
| Frequency Adjustment Accuracy           | 0.1                       |         |     | Hz   |  |
| Output Waveform                         | Sine                      |         |     |      |  |
| Soft Start Time                         | 0                         | ---     | 10  | s    | Default value: 0.5                     |
| On/Off Delay Time Range                 | 0                         | ---     | 20  | s    | Default value: 0.2                     |
| On/Off Delay Time Accuracy              | 0.1                       |         |     | s    |  |
| Overheat Protection Trigger Temperature | 60                        | 65      | 65  | °C   |  |
| Digital Communication                   | ModBUS485 Communication   |         |     |      | Optional one                           |
|   | EtherCat                  |         |     |      |  |
|   | Profinet                  |         |     |      |  |
| DC Control Output Current               | 0                         | ---     | 200 | mA   | Dual 24V Output                        |
| DC Control Output Voltage               | 22                        | 24      | 26  | V    |  |
| Analog Control Signal                   | 4~20                      |         |     | mA   | 1 current channel remote speed control |
|   | 1~5/0~5/0~10              |         |     | V    | 3 voltage channel remote speed control |
| Digital Control Signal                  | 24                        |         |     | V    | Switching Signal                       |
| Adjustment Method                       | 1 Button+1 rotary encoder |         |     |      |  |
| Standby Power Consumption               | ---                       | ---     | 3   | W    |  |
| Display Method                          | 128*64                    |         |     |      | OLED Matrix Display                    |
| Ambient Temperature                     | 0                         | 25      | 40  | °C   | No Condensation                        |
| Ambient Humidity                        | 10                        | 60      | 85  | %    |  |
| Storage Ambient Temperature             | -20                       | 25      | 65  | °C   |  |

**Dimensions & Weight**

Dimensions: 190\*60\*108.9 (L\*W\*H, mm)  
Weight: 560g (without accessory)

**Optional Accessories**



● Vibration Sensor (16g, 2m)

● EtherCat Card  
● Profinet Card

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## SDVC40-S

Variable Frequency Digital Controller  
for Piezo Vibratory Feeder



### Model

SDVC40-S: 150mA

### Features

**Capacitive Load:** The controller is adaptive to resistive load, inductive load and specially capacitive load such as a piezo vibrator.

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Switch Sensor ON/OFF Control:** 1 NPN switch sensor or PLC can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

### Technical Data

| Item                                    | Range    |         |       | Unit   | Note                           |
|---|----------|---------|-------|--------|--------------------------------|
|   | Min      | Typical | Max   |        |                                |
| Input Voltage                           | 85       | 220     | 250   | V      | AC RMS                         |
| Adjustable Output Voltage Range         | 0        | ---     | 220   | V      |                                |
| Voltage Adjustment Accuracy             | 1        |         |       | V      |                                |
| Voltage Regulation Accuracy             | 0        | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$ |
| Response Time of Voltage Regulation     | 0.0025   | ---     | 0.025 | s      | the period of output voltage   |
| Adjustable Output Current Range         | 0        | ---     | 150   | mA     |                                |
| Output Power                            | 0        | ---     | 33    | VA     |                                |
| Output Frequency                        | 40       | ---     | 400   | Hz     |                                |
| Frequency Adjustment Accuracy           | 0.1      |         |       | Hz     |                                |
| Output Waveform                         | Sine     |         |       |        |                                |
| Soft Start Time                         | 0        | ---     | 10    | s      | Default value: 0.5             |
| On/Off Delay Time Range                 | 0        | ---     | 20    | s      | Default value: 0.2             |
| On/Off Delay Time Accuracy              | 0.1      |         |       | s      |                                |
| Overheat Protection Trigger Temperature | 60       | 65      | 65    | °C     |                                |
| DC Control Output Current               | 0        | ---     | 200   | mA     |                                |
| DC Control Output Voltage               | 22       | 24      | 26    | V      |                                |
| Analog Control Signal                   | 1~5/4~20 |         |       | V/mA   | Remote Speed Control signal    |
| Digital Control Signal                  | 24       |         |       | V      | Switching Signal               |
| Adjustment Method                       | 6        |         |       | Button |                                |
| Standby Power Consumption               | ---      | 4       | ---   | W      |                                |
| Display Method                          | 5        |         |       | Digit  | LED                            |
| Ambient Temperature                     | 0        | 25      | 40    | °C     | No Condensation                |
| Ambient Humidity                        | 10       | 60      | 85    | %      |                                |
| Storage Ambient Temperature             | -20      | 25      | 65    | °C     |                                |

### Dimensions & Weight

Dimensions: 190\*53.6\*94.5 (L\*W\*H, mm)

Weight: 1050g (without accessory)

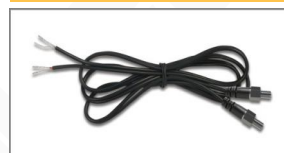
### Standard Accessories



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

### Optional Accessories



- Intelligent Photoelectric Sensor(1.5m)

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## SDVC402-S

Variable Frequency Digital Controller  
for Piezo Vibratory Feeder



### Model

SDVC402-S: 150mA

### Features

**Capacitive Load:** The controller is adaptive to resistive load, inductive load and specially capacitive load such as a piezo vibrator.

**Frequency Adjustment:** Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

**Time Adjustable Soft Start:** The controller will gently increase output voltage from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Dual Switch Sensor ON/OFF Control:** 2 NPN switch sensors or PLCs can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**DC Control Output:** The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

**Keypad Lock:** Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

**Output Current Display:** Output current can be displayed in real time.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

### Technical Data

| Item                                    | Range   |         |       | Unit   | Note                         |
|---|---------|---------|-------|--------|------------------------------|
|   | Min     | Typical | Max   |        |                              |
| Input Voltage                           | 85      | 220     | 250   | V      | AC RMS                       |
| Adjustable Output Voltage Range         | 0       | ---     | 220   | V      | AC RMS                       |
| Voltage Adjustment Accuracy             | 1       |         |       | V      |                              |
| Adjustable Output Current Range         | 0       | ---     | 150   | mA     |                              |
| Output Power                            | 0       | ---     | 33    | VA     |                              |
| Output Frequency                        | 40.0    | ---     | 999.9 | Hz     |                              |
| Frequency Adjustment Accuracy           | 0.1     |         |       | Hz     |                              |
| Output Waveform                         | Sine    |         |       |        |                              |
| Soft Start Time                         | 0       | ---     | 10.0  | s      | Default value: 0.5           |
| On/Off Delay Time Range                 | 0.0     | ---     | 99.9  | s      | Default value: 0.2           |
| On/Off Delay Time Accuracy              | 0.1     |         |       | s      |                              |
| Overheat Protection Trigger Temperature | 60      | 65      | 65    | °C     |                              |
| DC Control Output Current               | 0       | ---     | 350   | mA     |                              |
| DC Control Output Voltage               | 22      | 24      | 26    | V      |                              |
| Analog Control Signal                   | 1~5     |         |       | V      | remote speed control voltage |
|   | 4~20    |         |       | mA     | remote speed control current |
| Digital Control Signal                  | 24      |         |       | V      | Switching Signal             |
| Adjustment Method                       | 7       |         |       | Button |                              |
| Standby Power Consumption               | ---     | ---     | 5     | W      |                              |
| Display Method                          | 160*128 |         |       |        | Matrix Display               |
| Ingress Protection Level                | IP20    |         |       |        |                              |
| Ambient Temperature                     | 0       | 25      | 40    | °C     | No Condensation              |
| Ambient Humidity                        | 10      | 60      | 85    | %      |                              |
| Storage Ambient Temperature             | -20     | 25      | 65    | °C     |                              |

### Dimensions & Weight

Dimensions: 190\*53.6\*94.5 (L\*W\*H, mm)

Weight: 1075g (without accessory)

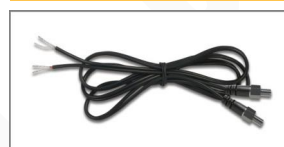
### Standard Accessories



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

### Optional Accessories



- Intelligent Photoelectric Sensor(1.5m)

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**SDVC42-S**  
Automatic High Frequency Piezo Controller



**Model**

SDVC42-S: 150mA

**Features**

**Capacitive Load:** The controller is adaptive to resistive load, inductive load and specially capacitive load such as a piezo vibrator.

**Automatic Constant Feed Speed Control:** Automatic output voltage adjustment in real time to ensure constant preset feed speed regardless of weight change of the workpieces.

**Automatic Frequency Adjustment:** Automatic output frequency adjustment in real time to make sure the load is always working at its resonant frequency.

**Automatic Resonant Frequency Scan:** Scan and then output resonant frequency of the load. Other related parameters are also set automatically.

**Counting:** Count number of the workpieces. The controller will slow down or stop when count up to preset value.

**RS485 Communication:** All parameters of the controller can be adjusted via RS485.

**Dual Switch Sensor ON/OFF Control:** 2 NPN switch sensors or PLCs can be connected to turn on/off the controller.

**Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.

**Digital Synchronous Communication:** The remote voltage, frequency, phase and other parameters of the controller can be distributed through digital synchronous communication CUHBus-DS<sup>®</sup>, so as to realize the parameter backup and restoration of all controllers (up to 8 units) in the entire network.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**Output Current Display:** Output current can be displayed in real time.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

**Technical Data**

| Item                                    | Range                  |         |       | Unit   | Note                           |
|---|------------------------|---------|-------|--------|--------------------------------|
|   | Min                    | Typical | Max   |        |                                |
| Input Voltage                           | 85                     | 220     | 250   | V      | AC RMS                         |
| Adjustable Output Voltage Range         | 0                      | ---     | 220   | V      | AC RMS                         |
| Voltage Adjustment Accuracy             | 1                      |         |       | V      |                                |
| Voltage Regulation Accuracy             | 0                      | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$ |
| Adjustable Output Current Range         | 0                      | ---     | 150   | mA     |                                |
| Output Power                            | 0                      | ---     | 33    | VA     |                                |
| Output Frequency                        | 40.0                   | ---     | 999.9 | Hz     |                                |
| Frequency Adjustment Accuracy           | 0.1                    |         |       | Hz     |                                |
| Output Waveform                         | Sine                   |         |       |        |                                |
| Soft Start Time                         | 0                      | ---     | 40.0  | s      | Default value: 0.5             |
| On/Off Delay Time Range                 | 0.0                    | ---     | 99.9  | s      | Default value: 0.2             |
| On/Off Delay Time Accuracy              | 0.1                    |         |       | s      |                                |
| Overheat Protection Trigger Temperature | 60                     | 65      | 65    | °C     |                                |
| Sync Communication                      | CUHBus-DS <sup>®</sup> |         |       |        |                                |
| Digital Communication                   | ModBUS485/Digital Sync |         |       |        |                                |
| DC Control Output Current               | 0                      | ---     | 400   | mA     |                                |
| DC Control Output Voltage               | 22                     | 24      | 26    | V      |                                |
| Analog Control Signal                   | 1~5/0~5/0~10           |         |       | V      | remote speed control voltage   |
|   | 4~20                   |         |       | mA     | remote speed control current   |
| Digital Control Signal                  | 24                     |         |       | V      | Switching Signal               |
| Adjustment Method                       | 7                      |         |       | Button |                                |
| Standby Power Consumption               | ---                    | ---     | 5     | W      |                                |
| Display Method                          | 128*128                |         |       |        | Matrix Display                 |
| Ingress Protection Level                | IP20                   |         |       |        |                                |
| Ambient Temperature                     | 0                      | 25      | 40    | °C     | No Condensation                |
| Ambient Humidity                        | 10                     | 60      | 85    | %      |                                |
| Storage Ambient Temperature             | -20                    | 25      | 65    | °C     |                                |

**Dimensions & Weight**

Dimensions: 190\*53.6\*94.5 (L\*W\*H, mm)

Weight: 1067g (without accessory)

**Standard Accessories**



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)
- Vibration Sensor (32g, 2m)

Remark: Input power cable can be customized to fit the socket in your country.

**Optional Accessories**



- Vibration Sensor (8g, 2m)
- Vibration Sensor (16g, 2m)
- Vibration Sensor (64g, 2m)

**Vibratory Feeder Controller Expert**

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**SDVC42-SD**  
Automatic High Frequency Piezo Controller



**Model**

SDVC42-SD: 600mA

**Features**

**Capacitive Load:** The controller is adaptive to resistive load, inductive load and specially capacitive load such as a piezo vibrator.

**Automatic Constant Feed Speed Control:** Automatic output voltage adjustment in real time to ensure constant preset feed speed regardless of weight change of the workpieces.

**Automatic Frequency Adjustment:** Automatic output frequency adjustment in real time to make sure the load is always working at its resonant frequency.

**Automatic Resonant Frequency Scan:** Scan and then output resonant frequency of the load. Other related parameters are also set automatically.

**Counting:** Count number of the workpieces. The controller will slow down or stop when count up to preset value.

**RS485 Communication:** All parameters of the controller can be adjusted via RS485.

**Dual Switch Sensor ON/OFF Control:** 2 NPN switch sensors or PLCs can be connected to turn on/off the controller.

**Automatic Switch Sensor Type Recognition:** The controller can recognize and adapt to both PNP and NPN type switch sensors.

**Digital Synchronous Communication:** The remote voltage, frequency, phase and other parameters of the controller can be distributed through digital synchronous communication CUHBus-DS<sup>®</sup>, so as to realize the parameter backup and restoration of all controllers (up to 8 units) in the entire network.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**Output Current Display:** Output current can be displayed in real time.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

**Technical Data**

| Item                                    | Range                  |         |       | Unit   | Note                           |
|---|------------------------|---------|-------|--------|--------------------------------|
|   | Min                    | Typical | Max   |        |                                |
| Input Voltage                           | 85                     | 220     | 250   | V      | AC RMS                         |
| Adjustable Output Voltage Range         | 0.0                    | ---     | 50.0  | V      | AC RMS                         |
| Voltage Adjustment Accuracy             | 0.1                    |         |       | V      |                                |
| Voltage Regulation Accuracy             | 0                      | ---     | 10    | %      | $\Delta V_{out}/\Delta V_{in}$ |
| Adjustable Output Current Range         | 0                      | ---     | 600   | mA     |                                |
| Output Power                            | 0                      | ---     | 30    | VA     |                                |
| Output Frequency                        | 40.0                   | ---     | 999.9 | Hz     |                                |
| Frequency Adjustment Accuracy           | 0.1                    |         |       | Hz     |                                |
| Output Waveform                         | Sine                   |         |       |        |                                |
| Soft Start Time                         | 0                      | ---     | 40.0  | s      | Default value: 0.5             |
| On/Off Delay Time Range                 | 0.0                    | ---     | 99.9  | s      | Default value: 0.2             |
| On/Off Delay Time Accuracy              | 0.1                    |         |       | s      |                                |
| Overheat Protection Trigger Temperature | 60                     | 65      | 65    | °C     |                                |
| Sync Communication                      | CUHBus-DS <sup>®</sup> |         |       |        |                                |
| Digital Communication                   | ModBUS485/Digital Sync |         |       |        |                                |
| DC Control Output Current               | 0                      | ---     | 400   | mA     |                                |
| DC Control Output Voltage               | 22                     | 24      | 26    | V      |                                |
| Analog Control Signal                   | 1-5/0-5/0-10           |         |       | V      | remote speed control voltage   |
|   | 4-20                   |         |       | mA     | remote speed control current   |
| Digital Control Signal                  | 24                     |         |       | V      | Switching Signal               |
| Adjustment Method                       | 7                      |         |       | Button |                                |
| Standby Power Consumption               | ---                    | ---     | 5     | W      |                                |
| Display Method                          | 128*128                |         |       |        | Matrix Display                 |
| Ingress Protection Level                | IP20                   |         |       |        |                                |
| Ambient Temperature                     | 0                      | 25      | 40    | °C     | No Condensation                |
| Ambient Humidity                        | 10                     | 60      | 85    | %      |                                |
| Storage Ambient Temperature             | -20                    | 25      | 65    | °C     |                                |

**Dimensions & Weight**

Dimensions: 190\*53.6\*94.5 (L\*W\*H, mm)

Weight: 1043g (without accessory)

**Standard Accessories**



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)
- Vibration Sensor (32g, 2m)

Remark: Input power cable can be customized to fit the socket in your country.

**Optional Accessories**



- Vibration Sensor (8g, 2m)
- Vibration Sensor (16g, 2m)
- Vibration Sensor (64g, 2m)

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## SDMC30-S

Digital Three Phase Asynchronous Motor Controller



### Model

SDMC30-S: 200W Digital Three Phase Asynchronous Motor Controller

### Features

**Frequency Adjustment:** The output frequency of the controller can be adjusted to set different motor speeds.

**Time Adjustable Soft Start:** The controller will gently increase output frequency from 0 to the preset value when power on to avoid sudden shake. Soft start time can be digitally preset.

**Time Adjustable Soft Shutdown:** When stopping from the running state, the output frequency can be gently reduced to 0 to prevent the motor load from being impacted.

**Dual Switch Sensor ON/OFF Control:** Adaptive switch sensors or PLCs can be connected to turn on/off the controller.

**Photoelectric Sensor ON/OFF Control:** The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

**Remote Speed Control:** Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

**Overvoltage Protection:** If input voltage is too high, power supply of the controller will be shutdown automatically to protect itself.

**Digital Overheat Protection:** If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

**Overcurrent Protection:** If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

**Restorable Short Circuit Protection:** If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

### Technical Data

| Item                                    | Range                 |         |       | Unit   | Note                              |
|---|-----------------------|---------|-------|--------|-----------------------------------|
|   | Min                   | Typical | Max   |        |                                   |
| Input Voltage                           | 200                   | 220     | 240   | V      | 50/60Hz                           |
| Output Cable Voltage                    | 0                     | ---     | 240   | V      | does not exceed the input voltage |
| RMS Input Current                       | ---                   | ---     | 2.8   | A      |                                   |
| Input Current Peak                      | ---                   | ---     | 8.0   | A      |                                   |
| Output Current Adjustment Range         | 0                     | ---     | 1.6   | A      |                                   |
| Output Capacity                         | 0                     | ---     | 600   | VA     |                                   |
| Output Frequency                        | 2.0                   | ---     | 120.0 | Hz     |                                   |
| Frequency Adjustment Accuracy           | 0.1                   |         |       | Hz     |                                   |
| Output Waveform                         | Vector Sine           |         |       |        |                                   |
| Applicable Motor Power                  | ---                   | ---     | 0.2   | kW     | 1/4HP                             |
| Overheat Protection Trigger Temperature | ---                   | 65      | ---   | °C     | 60°C return to normal             |
| DC Control Output Current               | 0                     | ---     | 350   | mA     |                                   |
| 24V Output Current                      | ---                   | ---     | 700   | mA     |                                   |
| DC Control Output Voltage               | 22                    | 24      | 26    | V      |                                   |
| Analog Control Signal                   | 4~20 / 1~5、0~5、0~10   |         |       | mA/V   |                                   |
| Digital Control Signal                  | 24                    |         |       | V      | Switching Signal                  |
| Adjustment Method                       | 6                     |         |       | Button |                                   |
| Standby Power Consumption               | ---                   | 3       | ---   | W      |                                   |
| Display Method                          | 5                     |         |       | Digit  | LED                               |
| Weight                                  | 830                   |         |       | g      | Without Accessory                 |
| Dimensions                              | 190*61.8*94.5 (L*W*H) |         |       | mm     |                                   |
| Ingress Protection Level                | IP20                  |         |       |        |                                   |
| Ambient Temperature                     | -10                   | 25      | 40    | °C     | No Condensation                   |
| Ambient Humidity                        | 10                    | 60      | 85    | %      |                                   |
| Storage Ambient Temperature             | -20                   | 25      | 65    | °C     |                                   |
| Applicable Altitude                     | <2000                 |         |       | m      |                                   |

### Dimensions & Weight

Dimensions: 190\*61.8\*94.5 (L\*W\*H, mm)  
Weight: 830g (without accessory)

### Standard Accessories



- Input Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

### Optional Accessories



- Intelligent Photoelectric Sensor(1.5m)

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## Vibratory Feeder Controller Specialist Provide Professional Service



**CUH** is a high-tech enterprise-which co-operates with Nanjing University, Southeast University, Nanjing University of Science and Technology and some others. We mainly research develop and produce automatic feeding systems and intelligent production equipments. Relying on the precise and pragmatic work attitude and strong technical force, CUH has gained a high popularity in domestic and international vibratory feeding fields by our reliable and stable products after a long and unremitting effort.



**CUH** has developed products-which are well known and universally acknowledged the vibratory feeding world through self-directed innovation and formed a complete product line from entry-level to high-end. CUH has become the leader of vibratory feeder controller by our stable, reliable, efficient and energy saving products. We can provide solutions to all kinds of control, drive and power supply requirements.

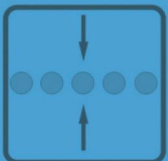


**CUH** is devoted to provide total solutions of vibratory feeding. You can get not independent components, but a complete intelligent feeding system which has automatic setting, automatic monitoring and automatic adjusting functions.



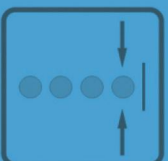
WE has passed ISO9001、ISO14001、ISO45001 Quality Management Systems Certificated

Our featured products have passed UL certification, CE Certificated  
The controller produced by CUH has passed RoHS certification



# Stable. Reliable. flexible. Efficient

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Provide Professional Service



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