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**SVC**®

SMART  
VOLTAGE  
CONTROL



**UPS**  
INVERTER  
BATTERY

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STANDBY / OFFLINE  
LINE INTERACTIVE  
ONLINE  
DC UPS  
INVERTER  
STABILIZER  
BATTERY

 [http:// www.svcpower.com](http://www.svcpower.com)

 Unified national service: 4008-300-338



<<Foshan Unipower Electronic Co., Ltd.>>

Foshan Unipower Electronic Co., Ltd. has engaged in research, sustained development and efficient production of high quality power supplies for over 16 years. At the very beginning we were a specialized manufacturer of offline UPS only, after years of innovation, we have become an outstanding enterprise of all kinds of power supplies, such as full range of offline, both low and high frequency of online, sine wave inverter with or without solar, various stabilizers...etc. Our goal is always to make ourselves, our brand SVC as well as our products qualified, safe, energy-saving and environment-friendly.

The factory covers nearly 16000 square meters, owns over 400 professional staff in separate floors for different kinds of products, equipped with 19 production lines to achieve a capacity of 150K pieces per month. We also run a specialized PCB center. There are 5 sets SMT facilities, advanced AOI (Automatic Optic Inspection) for precise detection of invisible deficiencies to ensure the quality of each PCB, more than 10 sets automatic insertion machines, 6 sets ICT (In Circuit Test) for PCB testing. Moreover, we have 4 sets ATE (Automatic Test Equipment) for finished units and semi-finals ’ checking, aging center to charge and discharge all the products before warehousing...we are trying every of our effort to accomplish a strict and responsible quality control.

We were, we are and we will always stick to quality, integrity and responsibility which were the foundation that we gained good reputation. We sincerely welcome friends from all over the world to pay a visit to our factory, to see the products, to be one of our distributors, to make friends. We are ready for you!

Check more updates on [www.svcpower.com](http://www.svcpower.com)  
Your attention makes my motivation!

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# Vortex Series

Unified national phone service:4008-300-338  
http:// www.svcpower.com

## Line-interactive (PWM output)

### Feature

- 1> CPU controlled
- 2> Auto re-starts when AC recovers
- 3> Silence setup
- 4> Automatic charging (offline charging)
- 5> Battery low voltage protection
- 6> Overload & short circuit protection
- 7> Wide input voltage range



## Specifications

MODEL	V-525	V-525A	V-625	V-1000
Capacity	500VA/300W	500VA/300W	600VA/360W	1000VA/500W
INPUT				
Input voltage	110/120Vac or 220/230/240Vac			
Input voltage range	90-132Vac / 175-265Vac	85-150Vac / 145-290Vac		
Frequency range	45-65Hz			
OUTPUT				
Output voltage	110/120Vac or 220/230/240Vac			
Output voltage range	90-132Vac / 175-265Vac	102-132Vac / 200-255Vac		
Output frequency	60 ± 0.5Hz or 50 ± 0.5Hz (Batt. mode)			
Output wave form	PWM (Batt.mode)			
Transfer time	Typical 2-6ms, 10ms max			
BATTERY				
QTY. & capacity of battery	12V/4.5AH × 1pc	12V/4.5AH × 1pc	12V/7AH × 1pc	12V/9AH × 1pc
Charging period	4-6 hours recover to 90% capacity			
PROTECTION				
Full protection	Low voltage & overload & short circuit protection			
PHYSICAL				
Net weight(kg)	3.5	3.6	4.3	4.8
Unit dimension(mm)	255*98*140		300*95*140	
ENVIRONMENT				
Environment of performance	Temperature 0℃-40℃, Humidity 20%-90%			
Noise level	≤40dB(1m)			
MANAGEMENT				
LCD or LED, RJ45/11 & USB	Optional			

Product specifications are subject to change without notice

# Vortex Series

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## Line-interactive (PWM output)

### Feature

- 1> CPU controlled
- 2> Auto re-starts when AC recovers
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- 5> Battery low voltage protection
- 6> Overload & short circuit protection
- 7> Wide input voltage range



## Specifications

MODEL	V-1200	V-1500	V-2000	V-3000
Capacity	1200VA/720W	1500VA/900W	2000VA/1200W	3000VA/1800W
INPUT				
Input voltage	110/120Vac or 220/230/240Vac			
Input voltage range	84-145Vac / 145-290Vac		84-145Vac / 175-275Vac	
Frequency range	45-65Hz			
OUTPUT				
Output voltage	110/120Vac or 220/230/240Vac			
Output voltage range	102-132Vac / 200-255Vac		102-132Vac / 198-242Vac	
Output frequency	60 ± 0.5Hz or 50 ± 0.5Hz (Auto sensing)			
Output wave form	PWM (Batt. mode)			
Transfer time	Typical 2-6ms, 10ms max			
BATTERY				
QTY. & capacity of battery	12V/7AH × 2pcs	12V/9AH × 2pcs	12V/9AH × 2pcs	12V9AH × 4pcs
Charging period	4-6 hours recover to 90% capacity			
PROTECTION				
Full protection	Low voltage & overload & short circuit protection			
PHYSICAL				
Net weight (kg)	9.5	11.5	14.7	20
Unit dimension (mm)	330 * 122 * 192		345 * 122 * 192	412 * 145 * 210
ENVIRONMENT				
Environment of performance	Temperature 0℃-40℃, Humidity 20%-90%			
Noise level	≤40dB(1m)			
MANAGEMENT				
LCD or LED, RJ45/11 & USB	Optional			

Product specifications are subject to change without notice



SL Series

Unified national phone service:4008-300-338  
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Line-interactive (Pure sine wave )

Feature

- 1> Double CPU controlled
- 2> Silence function
- 3> Pure sine wave output
- 4> Compatible with generator
- 5> Automatically transferred to battery mode when input over voltage or under voltage
- 6> Output overload and short circuit protection
- 7> Can be connected to external battery for longer power supply
- 8> Powerful charging current for high-capacity battery
- 9> RJ11/RJ45, communication line protection function
- 10> RS232/USB port (optional), intelligent monitoring function



Specifications

MODEL	SL-600	SL-1K	SL-1.5K	SL-2K	SL-3K	SL-5K	SL-600L	SL-1KL	SL-1.5KL	SL-2KL	SL-3KL	SL-5KL
Capacity	600VA	1000VA	1500VA	2000VA	3000VA	5000VA	600VA	1000VA	1500VA	2000VA	3000VA	5000VA
	420W	700W	1050W	1400W	2100W	3500W	420W	700W	1050W	1400W	2100W	3500W
DISPLAY												
Indicator panel	LCD display / LED display (Optional)											
AC MODE												
Input voltage	145-275Vac											
Input frequency	45-65Hz											
Output voltage	200-240Vac											
INVERTER MODE												
Output voltage	220V ± 5%											
Output frequency	50 ± 0.5Hz											
Power factor	0.7											
Output wave form	Pure Sine Wave											
Transfer time	Typical 2-6ms, 10ms max											
Overload capability	110% shut down within 60secs. 120% shut down within 5secs.											
Overcurrent protection	System shuts down automatically within 20ms											
BATTERY												
Battery type	Sealed maintenance-free lead-acid batteries											
DC voltage	DC12V	DC 24V		DC 48V			DC 12V	DC 24V		DC 48V		
QTY. & capacity of battery	12V/7AHx1	12V/7AHx2	12V/9AHx2	12V/7AHx4	12V/9AHx4	12V/17AHx4	External battery					
Charging current	-----						3A-20A (Adjustable)					
Charging period	6-8 hours recover to 90% capacity						Depends on the batteries connected					
Battery protection point	Adjustable											
PHYSICAL												
Net weight(kg)	4.8	9	12.1	22.5	24.5	30	3.8	6	8.1	17.3	20.6	26
Dimension(mm)	305*85 *141	384 * 122 * 192		375 * 192 * 330		585*192 *330	305*85 *141	345 * 122 * 192		375 * 192 * 330		
ENVIRONMENT												
Environment	Temperature 0℃-40℃, Humidity 20%-90%											
Noise level	≤40dB(1m)											
Altitude	≤1000 m (Altitude exceeds 1000m, full power cannot reach)											
MANAGEMENT												
USB & RS232	Optional											

Product specifications are subject to change without notice.  
Note:L for long back up time models

RTL Series

Unified national phone service:4008-300-338  
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Line-interactive (Pure sine wave )

Feature

- 1> Pure sine wave output
- 2> Double CPU controlled
- 3> G-Sensor autorotation LCD display
- 4> Extensible battery pack
- 5> Powerful charging function (Self settable)



Specifications

MODEL	RTL-1K/RTL-1KL	RTL-1.5K/RTL-1.5KL	RTL-2K/RTL-2KL	RTL-3K/RTL-3KL	RTL-5K/RTL-5KL					
Capacity	1000VA/700W	1500VA/1050W	2000VA/1400W	3000VA/2100W	5000VA/3500W					
DISPLAY										
Indicator panel	LCD display									
AC MODE										
Input voltage	145-275Vac									
Input frequency	45-65Hz									
Output voltage	200-240Vac									
INVERTER MODE										
Output voltage	220V ± 5%									
Output frequency	50 ± 1% Hz / 60 ± 1%Hz(Auto sensing)									
Power factor	>0.6									
Output wave form	Pure Sine Wave									
Transfer time	Typical 2-6ms, 10ms max									
Overload capability	110% shut down within 60secs.		120% shut down within 5secs.							
Overcurrent protection	System shuts down automatically within 20ms									
BATTERY										
Battery type	Sealed maintenance-free lead-acid batteries									
DC voltage	DC 24V				DC 48V					
QTY. & capacity of battery	12V/7AHx2	-----	12V/9AHx2	-----	12V/7AHx4	-----	12V/9AHx4	-----	12V/9AHx4	-----
External DC voltage	-----	24VDC	-----	24VDC	-----	48VDC	-----	48VDC	-----	48VDC
Charging current	Long back up time models: 5A or 10A ( Adjustable )									
Charging period	Standard type models:6-8 hours recover to 90% capacity;Long backup time models:Depends on the batteries connected									
PHYSICAL										
Net weight(kg)	16.2	13.5	19.2	16	26.6	18.6	28.5	20.5	39	30.8
Dimension(mm)	441 * 445 * 88								441 * 445 * 132	
ENVIRONMENT										
Environment	Temperature 0℃-40℃, Humidity 20%-90%									
Noise level	≤40dB(1m)									
Altitude	≤1000 m (Altitude exceeds 1000m, full power cannot reach)									
MANAGEMENT										
USB & RS232	Optional									
BATTERY PACK	12V/7AH × 8		12V/9AH × 8		12V/9AH × 12					
Dimension(mm)	441 * 445 * 88				441 * 445 * 132					
Net weight(kg)	24.5		27.4		42.6					

Product specifications are subject to change without notice.



Online high frequency

Feature

- 1> True double-conversion
- 2> Microprocessor control optimized reliability
- 3> Input power factor correction
- 4> Output power factor 0.8
- 5> Wide input voltage(110V – 300V)
- 6> Converter mode available
- 7> Generator compatible
- 8> Smart SNMP works well with either USB or RS-232



Specifications

MODEL	PT-1K	PT-1KL	PT-2K	PT-2KL	PT-3K	PT-3KL
Capacity	1000VA/800W		2000VA/1600W		3000VA/2400W	
INPUT						
Frequency range	Fullload:160Vac ± 5%–300Vac ± 5% ; no-load:110Vac ± 5%–300Vac ± 5%					
Power factor	0.8 ( 0.9 Optional )					
Frequency range	40Hz–70Hz					
Phase	Single phase with ground					
OUTPUT						
Output voltage	220Vac					
AC Voltage regulation	± 1% ( Batt. Mode)					
Frequency range	47–53 Hz or 57–63Hz(Synchronized range)					
Frequency range	50 ± 0.25Hz or 60 ± 0.3Hz(Batt. mode)					
Overload	>100%<110%: warning. >110%<130%: UPS shuts down after 1 minute in battery mode, or transfer to bypass when the utility is normal. >130%: UPS shuts down immediately in battery mode, or transfer to bypass when the utility is normal.					
Current crest ratio	3:1					
Harmonic distortion	≤6% THD(non-linear load)					
Transfer time	AC Mode to Batt Mode:0ms ; Inverter to Bypass:4ms (Typical)					
Wave form(Batt. Mode)	Pure Sinewave					
EFFICIENCY						
AC Mode	≥85%		≥88%			
Battery mode	≥83%		≥85%			
BATTERY						
Battery type(Standard Model)	12V/7–9AH					
Quantity	2pcs		6pcs		6pcs	8pcs
Recharging time	4 hours recover to 90% capacity (Typical)					
Charging current	Standard Model:1A(max)					
Charging voltage	27.3V ± 2%/41.0V ± 2%		55.2V ± 2%/82.1V ± 2%		82.1V ± 2%/109.4V ± 2%	
PHYSICAL						
Dimension(mm)	350*145*230		410*190*325			
Net weight (kg)	18.6	9.0	19.0	10.0	25.0	11.0
ENVIRONMENT						
Operation humidity	20–95%RH @ 0–40°C(non-condensing )					
Noise level	≤40dB(1m)					
MANAGEMENT						
Smart RS232 or USB	Rs232(default) USB(optional)					
Optional SNMP	Power management from SNMP manager and web browser					

Product specifications are subject to change without notice

Online high frequency

Feature

- 1> True double-conversion on line UPS.
- 2> Microprocessor control optimizes reliability.
- 3> Output power factor 0.8.
- 4> Wide input voltage range .
- 5> Generator compatible.
- 6> Charger capacity expansion to 6A for long-run models.
- 7> Smart communication program works well with either USB or RS232 together.



Specifications

MODEL	PT-6K	PT-6KL	PT-10K	PT-10KL	PT-3C10KL	PT-3C15KL	PT-3C20KL
Redundancy	Parallelled & redundancy						
Rated capacity	6 KVA/4800W		10 KVA/8000W			15 KVA/12000W	20 KVA/16000W
INPUT							
Wires	Single phase dual wires+earth wire				Three phases four wires+earth wire		
Voltage	220V: 176-276Vac				220V: 304-478Vac		
Power factor	0.8 ( 0.9 Optional )						
Frequency	46~54Hz Same as AC (AC mode)						
OUTPUT							
Voltage	220V: 220 ± 2%Vac						
Frequency	50~60Hz Automatic sensing (AC mode)						
	220V: 50 ± 0.2Hz (DC mode)						
Current crest factor	3:1						
Wave form	Sine wave						
BATTERY							
QTY.& capacity of battery	12V/7.5AH*16pcs	-----	12V/7.5AH*16pcs	-----	-----	-----	-----
External battery	-----	192VDC	-----	192VDC			
Transfer time	0 ms						
Overload capability	105%-130% for 10 minutes, 130% above for 1 minute						
ENVIRONMENT							
Environment of performance	Temperature 0℃-40℃,Humidity 20%-90%						
PHYSICAL							
Unit dimension(mm)	500*248*616	500*240*460	500*248*616	500*240*460	500*248*616	500*248*616	500*248*616
Net weight(kg)	57	18	67.5	20	27	35	35
MANAGEMENT							
Interface	RS232, Intelling slot selectable						

Product specifications are subject to change without notice.

Online high frequency (3 Phases)

Feature

- 1> High-frequency line interactive three phase UPS, the output can be connected to unbalanced load, and the three phases input always keep the load balanced.
- 2> Full digital control, more stable performance.
- 3> Save energy and protect the environment, the overall efficiency is up to 93%
- 4> Supports N+X parallel redundancy.
- 5> The optimized tower structure design has the smallest volume compared with similar products in the market
- 6> A single battery provides power to the system, using fewer batteries and reducing user costs.
- 7> The standard model is all-in-one type, built-in battery, installation and use more convenient.
- 8> Visual LCD display interface, clear and intuitive display of three-phase work information.



Specifications

MODEL	PT33-10K	PT33-10KS	PT33-20K	PT33-20KS	PT33-30KS	PT33-40KS
Rated capacity	10KVA/8KW		20KVA/16KW		30KVA/24KW	40KVA/32KW
INPUT						
Voltage range	207Vac-475Vac 3P4W+G					
Frequency range	40-70Hz(Adjustable)					
Factor	> 0.99					
OUTPUT						
Rated voltage & position	380Vac(1±1%) 3P4W+G					
Output frequency	When AC ranges from 46 to 54Hz, output frequency is synchronized with AC ; When AC ranges from 40 to 64Hz or 54 to 60Hz, the output is 50Hz; 50Hz (Battery mode)					
Roted current	15A		30A		45A	61A
Factor	0.8					
Output harmonic	≤3%					
Current cvest factor	3:1					
Overload capacity	105% ± 5% < Load ≤ 125% ± 5%, 60s transfer to bypass; 125% ± 5% < Load ≤ 135% ± 5%, 30s tranfer to bypass; Load > 135% ± 5%, 300ms tranfer to bypass					
Ac-transfer time	0ms					
Efficiency	> 92%				> 91%	
BATTERY						
Voltage	192Vdc				2 X 192Vdc	
QTY	16				32	
Changing current	5.5A	1A	7.5A	1A	5.5A	
RHYSICAL						
Environment of performance	Humidity: 20%-95%; Temperature: 0℃-40℃					
Nosie level	≤60db					
Dimension(L*M*H)(mm)	535*260*501	560*260*717	710*260*717			
Weight(kg)	26kg	72kg	57.5kg	98kg	58.5kg	62kg

Product specifications are subject to change without notice

Online high frequency (3 Phases)

Feature

- 1> High-frequency online three phase big power UPS, the output can be connected to 100% unbalanced load, and the three phases input are always keep balanced.
- 2> With the battery boost architecture, the number of battery uses is less
- 3> than other models which with same power.
- 4> The number of battery cells and charging current can be directly set through the touch screen, which is more convenient to use.
- 5> High-frequency line interactive three phase UPS, the output can be connected to unbalanced load, and the three phases input always keep the load balanced.
- 6> Support N+X parallel redundancy and up to 8 units
- 7> The power input uses the mains power supply, and it can start up without battery.
- 8> Has a powerful Extensible functional interface: RS232, RJ485, SNMP card, environmental monitoring card, dry



Specifications

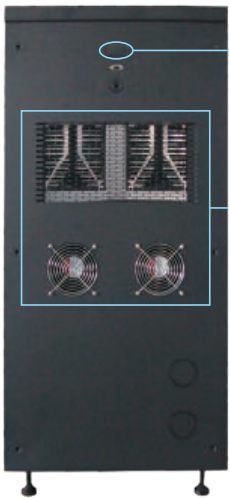
MODEL	PT33--60KS	PT33--80KS
Rated capacity	60KVA/48KW	80KVA/64KW
INPUT		
Voltage range	207Vac--475Vac 3P4W+G	
Frequency range	40--70Hz(Adjustable)	
Factor	> 0.99	
OUTPUT		
Rated voltage & position	380Vac( 1 ± 1% ) 3P4W+G	
Output frequency	When AC ranges from 46 to 54Hz, output frequency is synchronized with AC ; When AC ranges from 40 to 64Hz or 54 to 60Hz, the output is 50Hz; 50Hz (Battery mode)	
Roted current	91A	121A
Factor	0.8	
Output harmonic	≤ 3%	
Current cvest factor	3:1	
Overload capacity	105% ± 5% < Load ≤ 125% ± 5%, 60s transfer to bypass; 125% ± 5% < Load ≤ 135% ± 5%, 30s tranfer to bypass; Load > 135% ± 5%, 300ms tranfer to bypass	
Ac--transfer time	0ms	
Efficiency	> 90%	
BATTERY		
Voltage	480Vdc	
QTY	40	
Changing current	10A(5--20A Adjustable )	
RHYSICAL		
Environment of performance	Humidity: 20%--95%; Temperature: 0℃--40℃	
Nosie level	≤60db	
Dimension(L*M*H)(mm)	910*515*1145	
Weight(kg)	195kg	208kg

Product specifications are subject to change without notice

Online low frequency

Feature

- 1> High-efficient DSP chip
- 2> Outstanding electric property
- 3> Good looking and excellent hardware
- 4> N+1 parallel redundancy (compatible to battery share in the parallel mode)
- 5> Frontal-board operation and maintenance
- 6> Twin-channel line input
- 7> Remote monitoring
- 8> Intelligent management of battery charging and discharging
- 9> Flexible battery arrangement
- 10> Flexible arrangement, change due to the need
- 11> Built-in lightning protection module



20-30Kva  
Appearance



40-80Kva  
Appearance

Specifications

MODEL	GP33-20~30KVA	GP33-40~80KVA	GP33-100~120KVA	GP33-160~200KVA
Transference	0 ms cutless			
Technology	True double-conversion online technology,conversion performed by IGBT			
INPUT				
Voltage	3 x 220 /380 Vac ± 25%			
Frequency	50Hz ± 15%			
Conductors	Three phases + N + E			
OUTPUT				
Voltage (selectable)	3 x 220 /380 Vac ± 1% (More voltage can be selected)			
Frequency	50Hz ± 0.1%			
Waveform	Pure sine wave generated by high frequency PWM inverter			
Harmonic Distortion	<2% Linear load / <5% Nonlinear load			
Crest Factor	3:1			
Power factor	≥0.9			
Overload recuperation	Self-transference to UPS			
Voltage regulation	Load balance: ± 1%			
Overload capacity	125% for 12 minutes / 150% for 1 minute			
Conductors	Three phrases +N+E			
BATTERY				
Type	Maintenance – free sealed lead – acid battery			
Quantity	32pcs (29-32pcs adjustable)			
Voltage	Nominal 384V,Float 435V (Adjustable)			
Typical recharge time	4-8 hours,90%			
Battery handy	Autotest. Transfer point adjustable battery and alarm setting			
Battery protection	Fuse protection,battery switch,temperature compensation,regular inspection, software protection,over voltage tripping.			
Rectification	Software protection,input switch,over current protection,temperature protection			
PROTECTION				
Hardware protections	Breaker for input,output,battery and bypass,Fast acting fuses in DC,fans,redundant power supplies,temperature sensors,on-off switch and audible alarms.			
Bypass	Static solid state,automatic and manual operation without interruption for maintenance.External Bypass(optional)			
Emergency switch	Remote and/or local EPO			
SUPERVISORY CONTROL AND COMMUNICATION				
Frontal panel	Interactive LCD display (Touchscreen)			
Alarms	Audible and visual alarm for abnormal conditions			
Communications	RS232,SNMP-RJ45,GPRS module for mobile network remote monitoring			
UPS (Wx Dx H)mm	540*622*1125	664*865*1548	966*890*1748	1160*1043*1900
Battery case (Wx Dx H)mm	270*1125*774	432*1550*897	432*1550*897	432*1550*897
UPS weight (kg)	225/273	437/500/600	700/740	810/850
Battery case weight (kg)	59	105	105	105
Temperature	Temperature 0℃-40℃			
Relative humidity	0-95%, non condensing			
Noise	<60db at 1.5m from surface of unit			
Altitude	1000m (height rises every 100m, power decreases 1%, maximum height is 4000m)			
Efficiency	ECO mode >98% , Inverter>92% , AC- AC>91%			

Product specifications are subject to change without notice.



MP Series

Unified national phone service:4008-300-338  
http:// www.svcpower.com

Off-grid pure sine wave inverter

Feature

- 1> Pure sine wave inverterAVR founction Cold start function
- 2> Selectable high power AC charging current of 5A/10A/20A/30/45A/60A
- 3> Selectable UP to 8 types battery
- 4> Compatible to mains voltage or generator output
- 5> Auto restart while AC is recoveringOverload and short circuit protections
- 6> Smart battery charger design for optimized battery performance
- 7> remote control function USB and RS232 communication function



Specifications

MODEL	1012		1024		2012		2024		3024		3048		4048		5048		6048	
Real power	1000W				2000W				3000W				4000W		5000W		6000W	
DISPALY																		
Indicator panel	LCD display																	
AC MODE																		
Input Voltage	160–265 ± 5Vac																	
Input frequency	45–65Hz																	
Output Voltage	160–265 ± 5Vac																	
Efficiency	≥96% ( AC Mode )																	
INVERTER MODE																		
NO load current & power	0.6A/ 7.2W	0.6A/ 14.4W	1A/ 12W	0.8A/ 19.2W	0.8A/ 19.2W	0.7A/ 33.6W	0.7A/ 33.6W	0.8A/ 38.4W	0.8A/ 38.4W									
THD	<3%(linear load)																	
Output voltage	230Vac																	
Output frequency	50 ± 0.1Hz / 60 ± 0.1Hz (Auto sensing)																	
Output wave form	Pure Sine Wave																	
Transfer time	< 10ms (Typical)																	
Efficiency	≥80% ( BATTERY Mode )																	
Overload capability	(100%<Load<120%) ± 10%: Auto shutdown in 2 mins;																	
	(120%<Load<140%) ± 10%: Auto shutdown in 60 secs;																	
	(140%<Load) ± 10%: Auto shutdown in 20 secs;																	
Overcurrent protection	System shuts down automatically within 20ms																	
Output short circuit protection	Yes																	
BATTERY																		
DC voltage	DC 12V	DC 24V	DC 12V	DC 24V	DC 24V	DC 48V												
Battery type	8 types of battery																	
AC charging current	5A/ 10A/ 20A/ 30A/ 45A(60A) Max																	
PHYSICAL																		
Net weight(kg)	20	20	23	23	27.1	27.1	30.8	34.2	40.5									
Dimension(mm)	526(L)*277(W)*215(H)mm																	
ENVIRONMENT																		
Environment	Temperature 0℃–40℃, Humidity 20%–90%																	
Noise level	≤40dB(1m)																	
Altitude	≤1000 m (Altitude exceeds 1000m, full power cannot reach)																	

Product specifications are subject to change without notice

MPS Series

Unified national phone service:4008-300-338  
http:// www.svcpower.com

Off-grid pure sine wave inverter (Solar optional)

Feature

- 1> Pure sine wave inverterAVR function Cold start function
- 2> Selectable INV MODE range 100Vac-290Vac or UPS MODE 160Vac-275Vac for home appliances and personal computers
- 3> Selectable high power AC charging current of 5A/10A/20A/30/45A/60A
- 4> Selectable up to 8 types battery
- 5> Compatible to mains voltage or generator output
- 6> Auto restart while AC is recoveringOverload and short circuit protections
- 7> Smart battery charger design for optimized battery performance
- 8> Selectable solar charging current from10A to 60A
- 9> Configurable AC / Solar input priority via LCD setting
- 10> Setting of battery shutdown voltage.
- 11> Setting of battery voltage from solar priority to AC priority.
- 12> Remote control functionUSB and RS232 communicationfunction



Specifications

MODEL	1012	1024	1512	1524	2012	2024	3024	3048
Real power	1000W		1500W		2000W		3000W	
DISPALY								
Indicator panel	LCD display							
AC MODE								
Input Voltage (INV. mode)	100–290 ± 5Vac							
Input Voltage (UPS mode)	160–275 ± 5Vac							
Input frequency	45–65Hz							
Output Voltage (INV. mode)	120–252 ± 5Vac							
Output Voltage (UPS mode)	198–242 ± 5Vac							
Efficiency	≥96% ( AC Mode )							
INVERTER MODE								
NO load current & power	0.6A/ 7.2W	0.6A/ 14.4W	0.8A/ 9.6W	0.7A/ 16.8W	1A/ 12W	0.8A/ 19.2W	0.8A/ 19.2W	0.7A/ 33.6W
THD	<3% ( Linear load )							
Output voltage	230Vac							
Output frequency	50 ± 0.1Hz / 60 ± 0.1Hz ( Auto sensing )							
Output wave form	Pure Sine Wave							
Transfer time	< 10ms (Typical )							
Efficiency	≥80% ( BATTERY Mode )							
Overload capability	(100%<Load<120%) ± 10%: Auto shutdown in 2 mins;							
	(120%<Load<140%) ± 10%: Auto shutdown in 60 secs;							
	(140%<Load) ± 10%: Auto shutdown in 20 secs;							
Overcurrent protection	System shuts down automatically within 20ms							
Output short circuit protection	Yes							
BATTERY								
DC voltage	DC 12V	DC 24V	DC 12V	DC 24V	DC 12V	DC 24V	DC24V	DC 48V
Battery type	8 types of battery							
AC charging current	5A/ 10A/ 20A/ 30A/ 45A(60A) Max							
Solar charging current(MPPT)	10A/ 20A/ 30A/ 40A/ 50A/ 60A							
PHYSICAL								
Net weight(kg)	21	21	23.7	23.7	24.9	24.9	29	29
Dimension(mm)	526(L)*277(W)*282(H)mm							
ENVIRONMENT								
Environment	Temperature 0℃–40℃, Humidity 20%–90%							
Noise level	≤40dB(1m)							
Altitude	≤1000 m ( Altitude exceeds 1000m, full power cannot reach )							

Product specifications are subject to change without notice

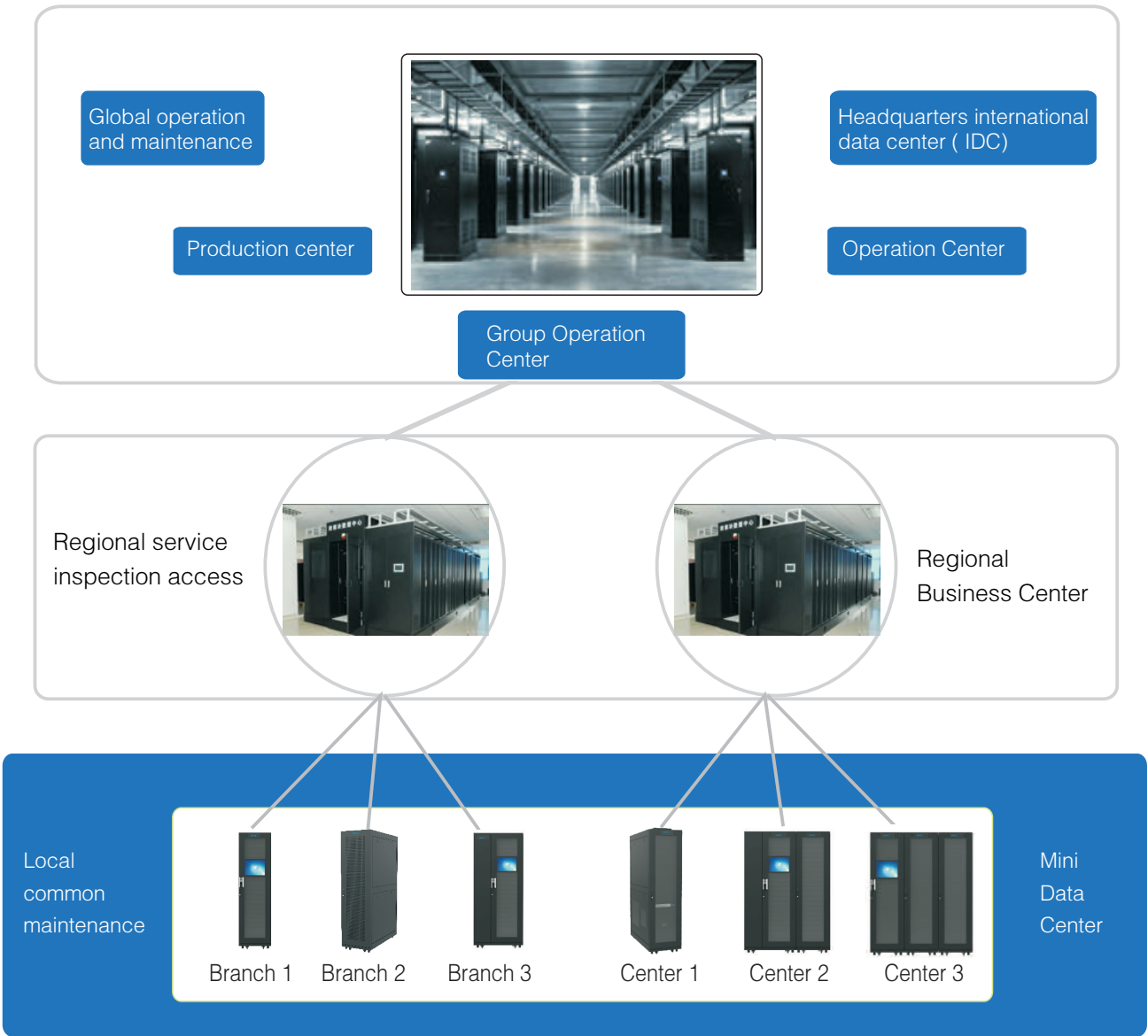
# Microdata center All-in-one integrated cabinet

Unified national phone service:4008-300-338  
http:// www.svcpower.com

## Mini data center All-in-one cabinet system

### Introduction of mini data center system

With cloud computing, mobile Internet, Internet of things, block chain industry booming,the data center is increasing and showing the trend of polarization,there are more and more terminal mini data center, however, the scattered mini data centers have been facing difficulties in planning construction and operation management due to differences in geography, environment and architecture, it challenges the rapid development of the business.



### Product introduction

Based on rich experience and technology in the data center industry, UNIPOWER introduced the cabinet type mini data center solution timely, and made a deep integration of UPS power supply, distribution, refrigeration, access control, lighting, lightning protection, monitoring, cabinets, wiring, fire fighting, emergency ventilation and other systems to provide safe and reliable operational support for IT equipment. To achieve integrated data center deployment and operation management, to create a cabinet-type integrated micro data center.

# Microdata center All-in-one integrated cabinet

Unified national phone service:4008-300-338  
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## Microdata center All-in-one integrated cabinet specifications

### Appearance



MODEL	1P3K	1P6K	1P3T	1P3KT3	B1P3KT3	B1P6KT3	H1P3KT3	H1P6KT3
VOLTAGE								
IT capacity	2400W	4800W	No	2400W	2400W	4800W	2400W	4800W
UPS capacity	3KVA	6KVA	No	3KVA	3KVA	6KVA	3KVA	6KVA
Voltage	3-10KVA: 220V Input & output 20KVA: 380V or 220V Input (adjustable)/ 220V output							
Lightning protection/distribution	Lightening protection at C level, overal control of mains input, UPS input, UPS output shunt, baypass maintainance, electricity meter indicator							
COOLING								
Air conditioner Mode	NO/ (adjustable)		3KW Mode/pc (Outdoor not available)					
Cooling capacity	-/ (2.5KW(optional)		3KW					
Emergency Ventilation	No		Yes					
CABINET								
recommended cabinet QTY	1							
Usuable Space	37U	35U	28U	22U	22U	20U	40U	38U
PDU QTY	8-bit 16A							
Enclosed heating and cooling aisle	-		Fully enclosed, emergency ventilation system at the top, front and rear cabinet					
Lighting	Optional		LED lighting at the top, front and rear cabinet (lights on when doors opened)					
Cable column	One cable column at the rear, left and right of the cabinet							
MONITORING								
Items under Monitoring	UPS, Temperature & Humidity, smoke sensation,door Magnetic		UPS, Temperature & Humidity, smoke sensation,door Magnetic,access control, water sensor, message					
Display	No				15 inches integrated unit with LCD & touch screen			
FIREFIGHTING								
Aerosol fire extinguisher	1pc							
BATTERY								
10 mins Backup	Built-in batteries	2U battery pack	No	Built-in batteries	Built-in batteries	2U battery pack	Built-in batteries	2U battery pack
30 mins Backup	2U battery pack*3=6 (3KVA:96V*7AH; 6KVA: 192v*7AH; 10kva: 192V*9AH)							
Backup time extension	Install battery pack with large capacity. It can be put inside or outside the cabinet.The specific height is calculated according to the actual configuration.							
DIMENSION								
W(mm)*L(mm)	600*1000(1200)		600*1200				870*1200	
H(mm)	2000(or other sizes)		2000					
ENVIRONMENT								
Temperature	0-45℃							
Humidity	Relative humidity 0-95%, no water condensation							
Altitude	<1000m,full power may not be reached if over 1000m							

Customized service: According to customer needs to provide a wealth of options and customized services

Microdata center All-in-one integrated cabinet

Unified national phone service:4008-300-338  
http:// www.svcpower.com

Micro Integrated data center unit specifications

Appearance



MODEL	H2P10KT3	H2P10KT6	H3P10KT6	H3P20KT6	B2P10KT7	H3P10KT7	B3P20KT12	B4P20KT12
VOLTAGE								
IT capacity	8000W	8000W	8000W	16KW	8000W	8000W	16KW	16KW
UPS capacity	10KVA	10KVA	10KVA	20KVA	10KVA	10KVA	20KVA	20KVA
Voltage	10KVA: 220V Input & output; 20KVA: 380V or 220V Input (adjustable)/ 220V output							
Lightning protection/distribution	Lightening protection at C level, overal control of mains input, UPS input, UPS output shunt, baypass maintainance, electricity meter indicator							
COOLING								
Air conditioner Mode	3KW Mode/pc (Outdoor not available)		3KW Mode/ 2pcs (Outdoor not available)		Mode/pc, outside available		Mode/pc, outside available	
Cooling capacity	3KW		6KW		7.5KW		12.5KW	
Emergency Ventilation	Yes							
CABINET								
recommended cabinet QTY	1+1	1+1	1+2	1+2	1+1	1+2	1+2	1+3
Usuable Space	38U+42U	34U+42U	38U+42U +42U	24U+42U +42U	26U+42U	26U+42U +42U	14U+42U +42U	14U+42U +42U+42U
PDU QTY	8 bit 16A/ 4pcs		8 bit 16A/ 6pcs		8 bit 16A/ 4pcs	8 bit 16A/ 6pcs		8 bit 16A/ 8pcs
Enclosed heating and cooling aisle	Fully enclosed, emergency ventilation system at the top, front and rear cabinet							
Lighting	LED lighting at the top, front and rear cabinet (lights on when doors opened)							
Cable column	One cable column at the rear, left and right of the cabinet							
MONITORING								
Items under Monitoring	UPS, air conditioner, temperature&humidity, smoke sensor, door magnetic, access control, water sensor, SMS alert							
Display	15 inches integrated unit with LCD & touch screen							
FIREFIGHTING								
Fire extinguisher	6/8/10 kg suspended heptafluoropropane automatic fire extinguisher ( other models optional)							
BATTERY								
10 mins Backup	2U battery pack			4U battery pack	2U battery pack		4U battery pack	
30 mins Backup	6U battery pack			battery pack	2U battery pack		battery pack	
Backup time extension	Install battery pack with large capacity. It can be put inside or outside the cabinet.The specific height is calculated according to the actual configuration.							
DIMENSION	1470		2070		1200	1800		2400
W(mm)*L(mm)	1200							
H(mm)	2000							
ENVIRONMENT								
Temperature	0-45℃							
Humidity	Relative humidity 0-95%, no water condensation							
Altitude	<1000m,full power may not be reached if over 1000m							

Customized service: According to customer needs to provide a wealth of options and customized services

XL Series

Unified national phone service:4008-300-338  
http:// www.svcpower.com

Pure sine wave inverter

Feature

- 1> Pure sine wave inverter
- 2> 4-step AVR
- 3> Selectable input voltage range (100V-290V or 145-290V) for home appliances and personal computers
- 4> Selectable high power charging current of 10A/20A /Max.(Optional)
- 5> Selectable battery types of gel, lead-acid and open lead-acid battery
- 6> Configurable AC / Solar input priority via LCD setting
- 7> Compatible to mains voltage or generator output
- 8> Auto restart while AC is recovering
- 9> Overload and short circuit protections
- 10> Smart battery charger design for optimized battery performance
- 11> Cold start



Specifications

MODEL	XL-600	XL-800	XL-1000	XL-1200	XL-1500
Capacity	600VA/ 500W	800VA/ 640W	1000VA/ 800W	1200VA/ 1000W	1500VA/ 1200W
Power factor	0.8				
INPUT					
Voltage range ( INV. mode )	100-290Vac ± 5Vac				
Voltage range ( UPS mode )	145-275Vac ± 5Vac				
Input frequency	45-65Hz				
OUTPUT					
Voltage range ( INV. mode )	150-255Vac ± 5Vac				
Voltage range ( UPS mode )	203-238Vac ± 5Vac				
Frequency	50 ± 0.1Hz (Batt.mode)				
Wave form	Pure sine wave (batt.mode)				
Transfer time	<10ms				
BATTERY (12V/ 24V)					
Charging current ( AC )	10A/20A/Max.				
Type of battery ( optional )	GEL/Sealed lead-acid / Open lead-acid				
PHYSICAL					
Net weight ( kg )	7.6	9.8	10.8	12.2	13.2
Unit dimension ( mm )	290*255*120				
ENVIRONMENT					
Operating environment	Temperature: 0℃-40℃, Humidity: 20%-90%				
Nosie level	≤40dB(1m)				

Product specifications are subject to change without notice



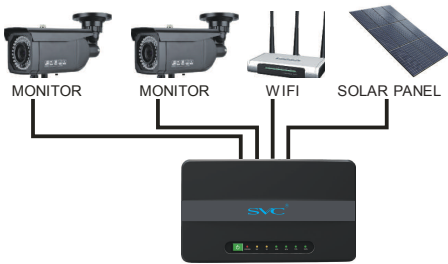
DC UPS Series

Unified national phone service:4008-300-338  
http:// www.svcpower.com

DC UPS

Feature

- 1> High capacity lithium batteries, provides long backup to the loads.
- 2> High compatibility, suitable for most digital products in the market.
- 3> POE can transmit power and simplify wiring.
- 4> Intelligent circuit design with over-charging, over-discharging and short circuit protections.
- 5> Built-in adapter allows wide AC voltage range (100~240Vac).
- 6> Solar panel is acceptable for the input interface.



Specifications



MODEL	ECO Plus							
	212	415	415P	430P	430M	430S	860	1660
INPUT								
Input voltage	100~240Vac							
OUTPUT								
DC output voltage(optional)	USB 1.5A 9/12V 1A	5V+USB 2A 9V/12V 1A 12V 1A	5V+USB 2A 9V/12V 1A 15V/24V (POE) 0.5A	5V+USB 2A 9V/12V 2A 15V/24V (POE) 1A	5V+USB 2A 9V/12V 2A 12VX4 2A	5V+USB 2A 9V/12VX4 2A Solar input 1A	5V+USBX2 2A 9/12V 2A 15V/24V(POE) 1A 12VX4 5A Solar input 2A	
Voltage select	Choosing through the slide switch							
Output power (Max)	12W	15W		30W			60W	
Transfer time	0 ms							
BATTERY								
Battery type	Lithium battery							
QTY. & capacity of battery	6700mAh	8800mAh					2200mAhX8	2200mAhX16
CHARGE								
Charging period	1-2 hours	2-3 hours					4-5 hours	
PHYSICAL								
Unit dimension ( mm )	141.5*84.5*35	180*106*29					258*152*46	
Net weight ( Kg )	0.3	0.4					0.94	1.28
ENVIRONMENT								
Environment of performance	Temperature: 0℃℃-40℃, Humidity: 20%-90%							
Noise level	Less than 40dB							

Product specifications are subject to change without notice

DC UPS Series

Unified national phone service:4008-300-338  
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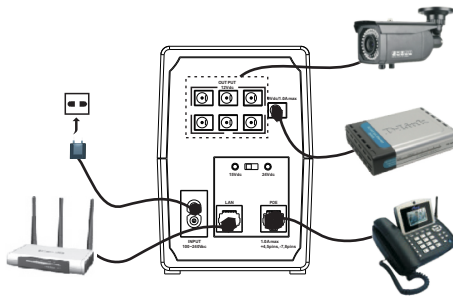
DC UPS

Feature

- 1> High capacity lead-acid batteries,provides long backup to the loads.
- 2> High compatibility,suitable for most digital products in the market.
- 3> POE can transmit power and simplify wiring.
- 4> In telligent circuit design with over-charging,over-discharging and short circuit protections.
- 5> Built-in a dapter allows wide AC voltage range ( 85-265Vac ).



Specifications



MODEL	DCT-60	DCT-120
INPUT		
Voltage range	100-240 Vac	
Input frequency	35-70 Hz	
OUTPUT		
Output power ( Max.)	60W(5A)	120W(10A)
Output voltage & current ( Max.)	9Vdc(1A)+12VdcX6(5A)+15/24Vdc POE(1A)	9Vdc(1A)+12VdcX6(10A)+15/24Vdc POE(1A)
BATTERY		
Battery type	12V/7Ah	12V/9Ah
PHYSICAL		
Dimension ( mm )	300*95*140mm	
Net weight ( Kg )	2.8kg	3.0kg

Product specifications are subject to change without notice.

Medium Sealed Series

Unified national phone service:4008-300-338  
http:// www.svcpower.com

Valve Regulated Sealed Lead Acid Battery



Medium sealed series-specification

From 33 Ah to 250Ah

Battery Model	Nominal voltage ( V )	Rated capacity(Ah) 10hrs/25°C	Approx. weight		Dimension								Terminal Type
					Length		Width		Height		Total Height		
			kg	lbs	mm	inch	mm	inch	mm	inch	mm	inch	
SS36-6	6	36	6.50	14.33	162	6.38	88	3.47	164	6.46	177	6.97	T3
SS100-6	6	100	17.00	37.48	195	7.68	170	6.70	207	8.16	210	8.27	T16
SS180-6	6	180	29.00	63.93	260	10.24	180	7.09	246	9.69	250	9.85	T19
SS200-6	6	200	30.50	67.24	322	12.69	178	7.01	227	8.94	230	9.06	T10
SS225-6	6	225	34.50	76.06	243	9.57	188	7.41	276	10.87	276	10.87	T19
VP1233	12	33	10.00	22.05	196	7.72	131	5.16	155	6.11	180	7.09	T16
VP1235	12	35	10.20	22.27	196	7.72	131	5.16	155	6.11	180	7.09	T16
VP1238	12	38	12.90	22.49	197	7.76	166	6.54	174	6.86	181	7.13	T12
VP1240	12	40	13.00	28.66	197	7.76	166	6.54	174	6.86	181	7.13	T12
VP1245	12	45	13.80	31.08	197	7.76	166	6.54	171	6.74	171	6.74	T9
VP1250	12	50	16.20	35.71	230	9.06	138	5.44	211	8.31	224	8.83	T12
VP1255	12	55	16.20	35.71	230	9.06	138	5.44	211	8.31	229	9.02	T9,T16
VP1260	12	60	19.60	42.77	350	13.79	166	6.54	179	7.05	179	7.05	T9
VP1265	12	65	20.50	45.19	350	13.79	166	6.54	179	7.05	179	7.05	T9
VP1270	12	70	22.00	48.50	260	10.24	169	6.66	211	8.31	224	8.83	T12
VP1270	12	70	22.00	48.50	260	10.24	169	6.66	211	8.31	215	8.47	T16
VP1280	12	80	26.00	54.01	329	12.96	173	6.82	213	8.39	233	9.18	T10
VP1290	12	90	28.00	56.22	307	12.10	169	6.66	211	8.31	215	8.47	T16
VP12100	12	100	30.00	66.14	331	13.04	173	6.82	213	8.39	233	9.18	T10
VP12100	12	100	31.00	68.34	331	13.04	173	6.82	213	8.39	233	9.18	T10
VP12100	12	100	32.00	71.65	407	16.04	174	6.86	209	8.23	233	9.18	T11
VP12120	12	120	36.50	80.47	407	16.04	174	6.86	209	8.23	233	9.18	T11
VP12134	12	134	41.50	91.49	341	13.44	173	6.82	282	11.11	283	11.15	T19
VP12150	12	150	42.50	93.70	484	19.07	171	6.74	241	9.50	241	9.50	T11
VP12150	12	150	45.00	99.21	484	19.07	171	6.74	241	9.50	241	9.50	T11
VP12150	12	150	50.00	110.23	551	21.71	110	4.33	287	11.31	287	11.31	T46
VP12165	12	165	49.00	108.03	494	19.46	204	8.04	208	8.20	232	9.14	T11
VP12180	12	180	55.00	121.25	560	22.06	125	4.93	316	12.45	316	12.45	T46
VP12200	12	200	60.00	127.87	522	20.57	240	9.46	216	8.51	240	9.46	T11
VP12200	12	200	64.00	132.28	522	20.57	240	9.46	216	8.51	240	9.46	T11
VP12220	12	220	64.50	141.09	522	20.57	240	9.46	216	8.51	243	9.57	T11
VP12250	12	250	73.00	160.94	520	20.49	268	10.56	220	8.67	243	9.57	T11

Product's features

Long service time design

The battery applies advanced grid manufacturing process. The corrosion resistance of the grid is increased in amplitude. The service life of the battery's floating charge is designed more than 10 years.

High rate discharge performance, sufficient capacity

It applies the designs of front edge plate and terminal, and adds advanced formula and welding technology as supplements, which improves high power discharge performance of the battery.

Safety performance

It uses flame-retardant material battery shell and cover which is accorded with UL94-VO, so you can use it with ease.

Low self-discharge rate

When setting the battery for 28 days at the room temperature of 20°C, the self-discharge rate of the battery will be less than 2%, which is higher than the standard of the industry.

High consistency

It applies automatic manufacturing process with high production efficiency and good consistency performance of the plate and the battery, which is more suitable for the application of UPS multi section series connection.

High compatibility with UPS

The design of the product more emphasis on the compatibility and the system cost optimization of the UPS, which realizes the perfect combination with the UPS.

Convenient installation and maintenance

With a unified embedded terminal design, the battery has excellent overcurrent performance, which is convenient to be installed and maintained.

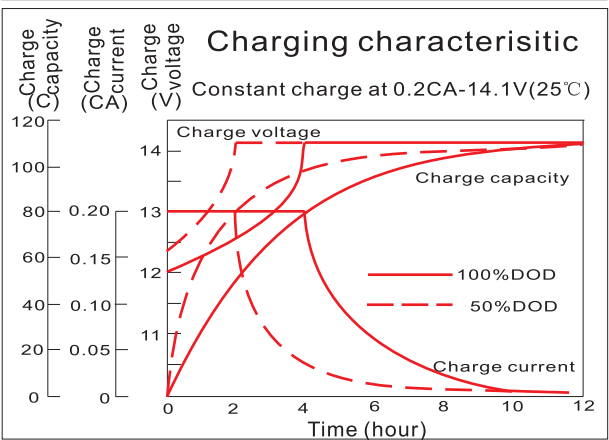
Medium Sealed Series

Unified national phone service:4008-300-338  
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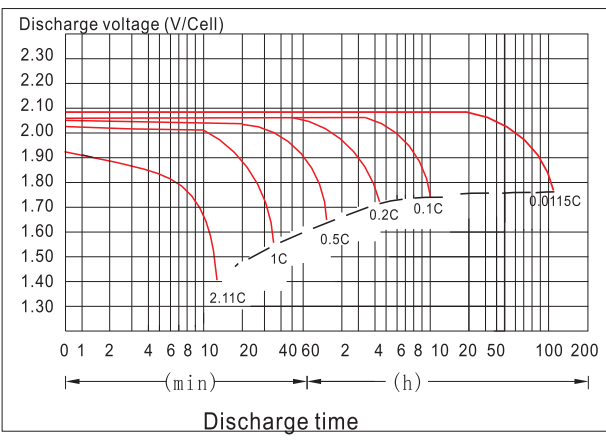
Battery characteristic curve graph



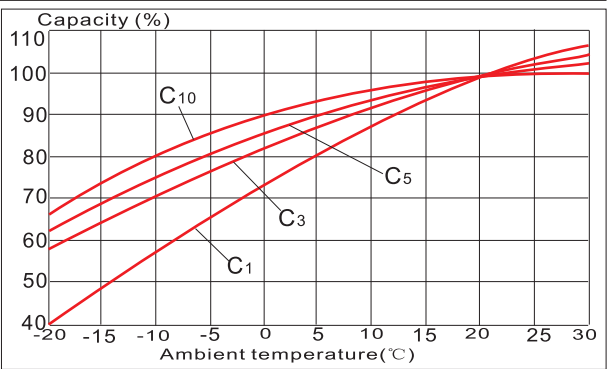
Charging characteristic curve graph



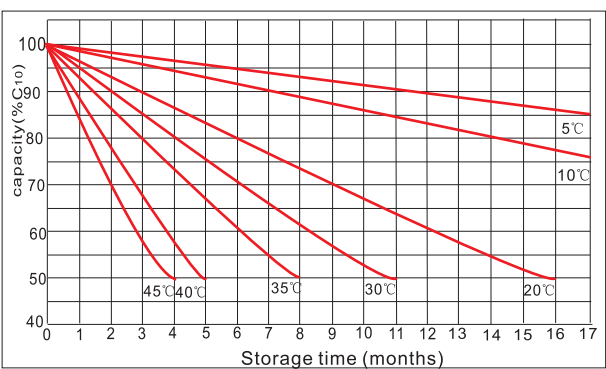
Discharge characteristic curve graph



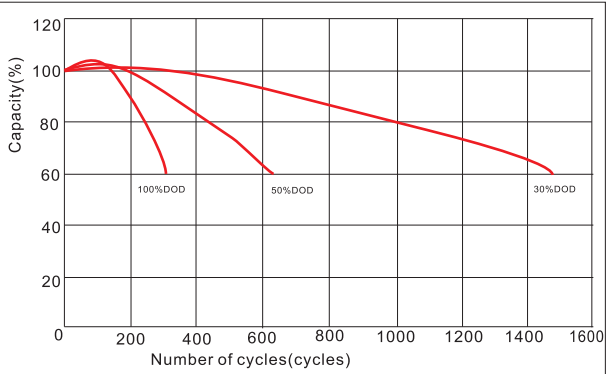
The effect of temperature on capacity



Self-discharge characteristic



The relationship between the cycling life and the deeply discharge



The relationship between floating voltage and temperature

