HF4840S80-145/HF4850S80-145



Performance characteristics

- \cdot Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.
- \cdot Two output modes: mains bypass and inverter output; uninterrupted power supply.
- · Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- · Advanced MPPT technology with an efficiency of 99.9%.
- \cdot With the charging requirement (voltage, current, mode) settings, and suitable for various types of energystorage batteries.
- · ON/OFF rocker switch for AC output control.
- · Power saving mode available to reduce no-load loss.
- · Intelligent variable speed fan to efficiently dissipate heat and extend system life.
- · Lithium battery activation design, allowing access of lead-acid battery and lithium battery.
- \cdot 360 ° all-round protection with a number of protection functions. Such as overload, short circuit and overcurrent.
- · Supply of a variety of user-friendly communication modules, such as Rs485 (GPRS,WiFi), CAN, USB etc., and suitable for computer, mobile phones, Internetmonitoring as well as remote operations.

Application scenarios







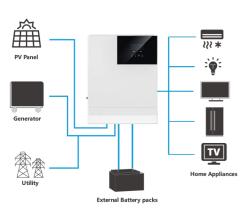




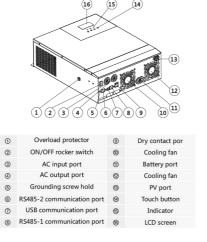
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Power stat

Product connection diagram



Product characteristics



	HF4840S80-145	HF4850S80-145	
AC mode			
Rated input voltage		230Vac	
Input voltage range	$(170Vac\sim280Vac) \pm 2\%/(90Vac-280Vac) \pm 2\%$		
Frequency	50Hz/60Hz (Auto detection)		
Frequency Range	47 ± 0.3 Hz ~ 55 ± 0.3 Hz (50 Hz)/ 57 ± 0.3 Hz ~ 65 ± 0.3 Hz (60 Hz);		
Overload/short circuit protection	Circuit	breaker	
Efficiency	>9	95%	
Conversion time (bypass and inverter)	10ms	(typical)	
AC reverse protection	Ava	ilable	
Maximum bypass overload current	4	0A	
Inverter mode			
Output voltage waveform		ne wave	
Rated output power (VA)	4000	5000	
Rated output power (W)	4000	5000	
Power factor		1	
Rated output voltage (Vac)	23	0Vac	
Output voltage error	±	5%	
Output frequency range (Hz)	50Hz ± 0.3Hz	z/60Hz ± 0.3Hz	
Maximum Efficiency	>9	32%	
Overload protection	(102% < load <125%) $\pm 10\%$: report error (125% < load < 150%) $\pm 10\%$: report error Load >150% $\pm 10\%$: report error and turn	or and turn off the output after 10 seconds;	
Peak power	8000VA	10000VA	
Loaded motor capability	3HP	4HP	
Output short circuit protection	Circuit	breaker	
Bypass breaker specifications	4	0A	
Rated battery input voltage	48V (Minimum st	arting voltage 44V)	
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage	alarm /overvoltage recovery settable on LCD screen)	
Power saving mode AC charging	Load ≤50W		
Battery type	Lead acid or	lithium battery	
Maximum charge current	6	0A	
Charge current error	± 5	5Adc	
Charge voltage range	40Vdc	~58Vdc	
Short circuit protection	Circuit breaker	and blown fuse	
Circuit breaker specifications	4	0A	
Overcharge protection	Alarm and turn off c	harging after 1 minute	
PV charging			
Maximum PV open circuit voltage	14	5Vdc	
PV operating voltage range	60-1	45Vdc	
MPPT voltage range	60-1	15Vdc	
Battery voltage range	40-	50Vdc	
Maximum output power	4200W	4200W	
PV charging current range (can be set)	0-80A	0-80A	
Charging short circuit protection	Blow	n fuse	
Wiring protection Certified specifications	Reverse pola	rity protection	
Certification	CE(EN	52109-1)	
EMC certification leve	EN61000, C2		
Operating temperature range	-15°C to 55°C		
Storage temperature range	-25°C	~ 60°C	
Humidity range	5% to 95% (Conform	nal coating protection)	
Noise		60dB	
Heat dissipation	Forced air cooling,	variable speed of fan	
Communication interface	- 100 A	PRS)/Dry node control	
Size (L*W*D)	426*32	2*124mm	
Weight (kg)	10.8		

HF4825U80-145/HF4830U80-145/HF4835U80-145



Performance characteristics

- · Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.
- · Two output modes: mains bypass and inverter output; uninterrupted power
- · Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- · Advanced MPPT technology with an efficiency of 99.9%.
- · With the charging requirement (voltage, current, mode) settings, and suitable for various types of energystorage batteries.
- · ON/OFF rocker switch for AC output control.
- · Power saving mode available to reduce no-load loss.
- · Intelligent variable speed fan to efficiently dissipate heat and extend system life.
- · Lithium battery activation design, allowing access of lead-acid battery and
- \cdot 360 ° all-round protection with a number of protection functions. Such as overload, short circuit and overcurrent.
- \cdot Supply of a variety of user-friendly communication modules, such as Rs485 (GPRS, WiFi), CAN, USB etc., and suitable for computer, mobile phones, Internetmonitoring as well as remote operations.

Application scenarios



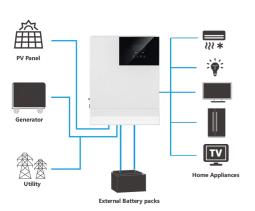




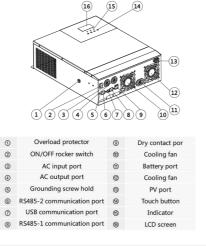




Product connection diagram



Product characteristics



Models	HF4825U80-145	HF4830U80-145	HF4835U80-145		
AC mode					
Rated input voltage	110/120Vac				
Input voltage range	(90Vac~140Vac) ±2%				
Frequency	50Hz/ 60Hz (Auto detection)				
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);				
Overload/short circuit protection	Circuit breaker				
Efficiency	>95%				
Conversion time (bypass and inverter)		10ms (typical)			
AC reverse protection		Available			
Maximum bypass overload current		40A			
Inverter mode					
Output voltage waveform		Pure sine wave			
Rated output power (VA)	2500	3000	3500		
Rated output power (W)	2500	3000	3500		
Power factor		1			
Rated output voltage (Vac)		120Vac			
Output voltage error		±5%			
Output frequency range (Hz)		50 Hz \pm 0.3 Hz/ 60 Hz \pm 0.3 Hz			
Maximum Efficiency		>91%			
Overload protection	(110% < load < 125%) ±	.0%: report error and turn off the out 10%: report error and turn off the ou ort error and turn off the output after	tput after 10 seconds;		
Peak power	4000VA	4500VA	5000VA		
Loaded motor capability	1HP	2HP	2HP		
Output short circuit protection		Circuit breaker			
Bypass breaker specifications		40A			
Rated battery input voltage	48	BV (Minimum starting voltage 44V)			
Battery voltage range	Undervoltage alarm/shutdown voltage	ge/overvoltage alarm /overvoltage i	recovery settable on LCD screen)		
Power saving mode AC charging	Load ≤50W				
Battery type		Lead acid or lithium battery			
Maximum charge current		40A			
Charge current error		± 5Adc			
Charge voltage range		40Vdc~60Vdc			
Short circuit protection		Circuit breaker and blown fuse			
Circuit breaker specifications		40A			
Overcharge protection	Alarn	n and turn off charging after 1 minu	te		
PV charging					
Maximum PV open circuit voltage		145Vdc			
PV operating voltage range		60-145Vdc			
MPPT voltage range		60-115Vdc			
Battery voltage range		40-60Vdc			
Maximum output power	4200W		4200W		
PV charging current range (can be set)	0-80A		0-80A		
Charging short circuit protection		Blown fuse			
Wiring protection Certified specifications	Reverse polarity protection				
Certification		CE(EN62109-1)			
EMC certification leve		EN61000, C2			
Operating temperature range		-15°C to 55°C			
Storage temperature range		-25°C ~ 60°C			
Humidity range	5% to	o 95% (Conformal coating protectio	n)		
Noise	5.00	≤60dB			
Heat dissipation	Fore	ed air cooling, variable speed of far	1		
1000000 01000 MRCCC0000	USB/RS485(WiFi/GPRS)/Dry node control				
Communication interface	USB.	/RS485(WiFi/GPRS)/Drv node contro	ol .		
Communication interface Size (L*W*D)	USB,	/RS485(WiFi/GPRS)/Dry node contro 426*322*124mm	ol .		

HFP4850S80/HFP4835U80-145



Performance characteristics

- · Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sinewave.
- · Two output modes: mains bypass and inverter output; uninterrupted power
- · Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- · Advanced MPPT technology with an efficiency of 99.9%. With the charging requirement (voltage, current, mode) settings, and suitable for various types of energystorage batteries.
- · ON/OFF rocker switch for AC output control.
- · Power saving mode available to reduce no-load loss. Intelligent variable speed fan to efficiently dissipate heat and extend system life.
- · Lithium battery activation design, allowing access of lead-acid battery and lithium battery.
- \cdot 360 ° all-round protection with a number of protection functions. Such as overload, short circuit and overcurrent.
- · Supply of a variety of user-friendly communication modules, such as RS485(GPRS, WiFi), CAN, USB etc., and suitable for computer, mobile phones, Internet monitoring as well as remote operations.
- · Available for 6 units parallel connection.
- · Available for split phase connection.

Application scenarios



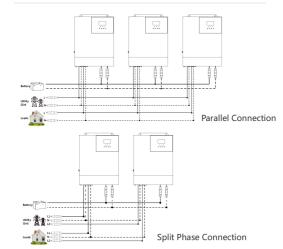




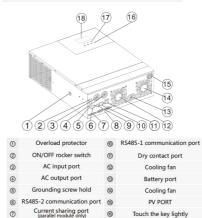




Product connection diagram



Product characteristics



LCD screen

Models	HFP4850S80-145	HFP4835U80-145	
AC mode			
Rated input voltage	220/230Vac	110/120Vac	
Input voltage range	(170Vac~280Vac) ±2%/(90Vac-280Vac)±2%	(90Vac~140Vac) ±2%	
Frequency	50Hz/60Hz(Auto detection)		
Parallelable/Split Phase units	Max. parallelable unit: 6pcs		
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);		
Overload/short circuit protection	Circuit breaker		
Efficiency	>95%		
Conversion time (bypass and inverter)	10ms (t	voical)	
AC reverse protection	Avail		
Maximum bypass overload current	40		
Inverter mode		•	
Output voltage waveform	Pure sin		
	5000	3500	
Rated output power (VA)			
Rated output power (W)	5000	3500	
Power factor	1	22.270	
Rated output voltage (Vac)	230Vac	120Vac	
Output voltage error	±5		
Output frequency range (Hz)	50Hz ± 0.3Hz/		
Maximum Efficiency	>92%	>91%	
Overload protection	(102% < load <125%) ±10%: report error and turn off the output after 5 minutes;(125% < load < 150%) ±10%: report error and turnoff the output after 10 seconds;toad >150% ±10%: report error and turn off the output after 5 seconds;	(102% < load <110%) ±10%: report error and turn off the output after 5 minutes;(110% < load < 125%) ±10%: repor error and turn off the output after 10 seconds;(Load >125° ±10%): report error and turn off the output after 5 second:	
Peak power	10000VA	6000VA	
Loaded motor capability	4HP	2HP	
Output short circuit protection	Circuit b	reaker	
Bypass breaker specifications	40	A	
Rated battery input voltage	48V (Minimum star	ting voltage 44V)	
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage al	arm /overvoltage recovery settable on LCD screen)	
Power saving mode AC charging	Load ≤50W		
Battery type	Lead acid or	lithium battery	
Maximum charge current	60A	40A	
Charge current error	+ 54	ndc	
Charge voltage range	40Vdc~58Vdc	40Vdc~60Vdc	
Short circuit protection	Circuit breaker a		
Circuit breaker specifications	40		
Overcharge protection	Alarm and turn off cha		
	Alaim and turn on the	aging arter a militate	
PV charging			
Maximum DV onen circuit voltage	* ***	(de	
Maximum PV open circuit voltage	145\		
PV operating voltage range	60-14	5Vdc	
PV operating voltage range MPPT voltage range	60-14 60-11	5Vdc 5Vdc	
PV operating voltage range MPPT voltage range Battery voltage range	60-14 60-11 40-60	5Vdc 5Vdc VVdc	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power	60-14 60-11 40-60 420	5Vdc 5Vdc Vdc DW	
PV operating voltage range MPPT voltage range Battery voltage range	60-14 60-11 40-60	5Vdc 5Vdc Vdc DW	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set)	60-14 60-11 40-60 420	5Vdc 5Vdc Vdc DW	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set) Charging short circuit protection Wiring protection Certified specifications	60-14 60-11 40-60 420 0-8	5Vdc SVdc Wd DW DA fuse	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set) Charging short circuit protection Winng protection Certified specifications Certification	60-14 60-11 40-60 420 0-8 Blown	5Vdc 5Vdc Vdd DW DA fuse ty protection	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set) Charging short circuit protection Winng protection Certified specifications Certification	60-14 60-11 40-6 420 0-8 Blowm Reverse polari	5Vdc 5Vdc VVdc OA fuse ty protection	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set) Charging short circuit protection Wiring protection Certified specifications Certification EMC certification level	60-14 60-11 40-60 4200 0-8 Blown Reverse polari	5Vdc SVdc VVdc JA fuse ty protection JO40-1)	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set) Charging short circuit protection Wiring protection Certification EMC certification level Operating temperature range	60-14 60-11 40-61 420 0-8 Blown Reverse polari CE(EN62 EN6204	5Vdc 5Vdc Vdc)W DA fuse ty protection 040-1) D-2, C2	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set) Charging short circuit protection Wiring protection	60-14 60-11 40-61 420 0-8 Blown Reverse polari CE(EN62 EN6204 -15°C to	5Vdc 5Vdc Vdc VdC DW DA fuse ty protection 0040-1) 0-2, C2 55°C -60°C	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set) Charging short circuit protection Wiring protection Certified specifications Certification EMC certification level Operating temperature range Storage temperature range Humidity range	60-14 60-11 40-64 420 0-8 Blown Reverse polari CE(EN62 EN6204 -15°C t	5Vdc 5Vdc VVdc VVd DW DA fuse ty protection 1040-1) 20-2, C2 5 55°C 1-60°C	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set) Charging short circuit protection Wiring protection Certified specifications Certification EMC certification level Operating temperature range Storage temperature range Humidity range Noise	60-14 60-11 40-66 4200 00-8 Blowm Reverse polari CE(EN62 EN6204 -15°C to 5% to 95% (Conforma	5Vdc SVdc Vddc Vdd DA fuse ty protection V040-1) O-2, C2 60°C I coating protection) dB	
PV operating voltage range MPPT voltage range Battery voltage range Maximum output power PV charging current range (can be set) Charging short circuit protection Wiring protection Certification EMC certification level Operating temperature range Storage temperature range Humidity range Noise Heat dissipation	60-14 60-11 40-61 42-0 0-8- Blown Reverse polari CE(EN62 EN6204 -15°C t -25°C 5% to 95% (Conforma	5Vdc 5Vdc Vdc Vdc DW DA fuse ty protection (040-1) D-2, C2 55°C 60°C 1 coating protection) dB ariable speed of fan	
PV operating voltage range MPPT voltage range Battery voltage range Battery voltage range Mximum output power PV charging current range (can be set) Charging short circuit protection Wiring protection Certified specifications Certification EMC certification level Operating temperature range Storage temperature range	60-14 60-11 40-61 420 0-8 Blown Reverse polari CE(EN62 EN6204 -15°C t -25°C - 5% to 95% (Conforms	5Vdc 5Vdc Vdc Vdc DA fuse ty protection 040-1) 0-2, C2 0 55°C 60°C I coating protection) dB striable speed of fan S)/Dry node control	

HF2420S60-100/HF2430S60-100



Performance characteristics

- · Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.
- · Two output modes: mains bypass and inverter output; uninterrupted power
- · Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- · Advanced MPPT technology with an efficiency of 99.9%.
- · With the charging requirement (voltage, current, mode) settings, and suitable for various types of energy storage batteries.
- · ON/OFF rocker switch for AC output control.
- · Power saving mode available to reduce no-load loss.
- · Intelligent variable speed fan to efficiently dissipate heat and extend system
- · Lithium battery activation design, allowing access of lead-acid battery and
- lithium battery. 360 ° all-round protection with a number of protection functions. Such as overload, short circuit and over current.
- · Supply of a variety of user-friendly communication modules, such as RS485(GPRS,WiFi), CAN, USB etc.,
- and suitable for computer, mobile phones, Internet monitoring as well as remoteoperations.
- · Lithium battey can be activated by both mains and PV.

Application scenarios





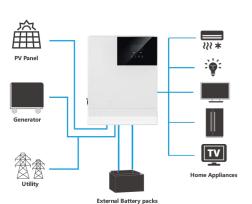




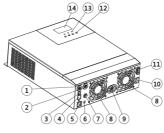




Product connection diagram



Product characteristics



1	AC input port	8	Cooling fan
2	AC output port	9	Battery port
3	USB communication port	1	ON/OFF rocker switch
4	RS485 communication port	11	PV port
(5)	Dry node port	12	Touch button
6	Grounding screw hole	13	LED Indicator
7)	AC input Overload	(14)	LCD screen

Models	HF2420S60-100	HF2430S60-100	
AC mode			
Rated input voltage	220/230Vac		
Input voltage range	(170Vac~280Vac) ±2%	; (90Vac-280Vac)±2%	
Frequency	50Hz/ 60Hz (Auto detection)		
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);		
Overload/short circuit protection	Circuit breaker		
Efficiency	>9	5%	
Conversion time (bypass and inverter)	10ms (1	typical)	
AC reverse protection	Avail	lable	
Maximum bypass overload current	30	0A	
Inverter mode			
Output voltage waveform	Pure sin	ne wave	
Rated output power (VA)	2000	3000	
Rated output power (W)	2000	3000	
Power factor	1		
Rated output voltage (Vac)	230	Vac	
Output voltage error	±5	%	
Output frequency range (Hz)	50Hz ± 0.3Hz/	/60Hz ± 0.3Hz	
Efficiency	>9.	2%	
Overload protection	$(102\% < load < 125\%) \pm 10\%$; report error $(125\% < load < 150\%) \pm 10\%$; report error Load >150% $\pm 10\%$; report error and turn $(125\% + 125\%) \pm 10\%$; report error err	and turn off the output after5 minutes; r and turn off the output after 10 seconds; offthe output after 5 seconds;	
Peak power	4000	6000	
Loaded motor capability	1HP	2HP	
Output short circuit protection	Circuit I	breaker	
Bypass breaker specifications	30)A	
Rated battery input voltage	24V (Minimum sta	rting voltage 22V)	
Battery voltage range	20.0Vdc~33Vdc ± 0.6Vdc (Undervoltage alarm/shutdown voltage/	overvoltage alarm /overvoltage recovery settable on LCD scre	
Power saving mode AC charging	Load ≤50W		
Battery type	Lead acid or li	thium battery	
Maximum charge current	60A	80A	
Charge current error	± 5/	Adc	
Charge voltage range	20.0Vdc	~33Vdc	
Short circuit protection	Circuit breaker	and blown fuse	
Circuit breaker specifications	30)A	
Overcharge protection	Alarm and turn off ch	arging after 1 minute	
PV charging			
Maximum PV open circuit voltage	100	Vdc	
PV operating voltage range	30-10	00Vdc	
MPPT voltage range	30-8	5Vdc	
Battery voltage range	20-3:	3Vdc	
Maximum output power	140	0W	
PV charging current range (can be set)	0-6	60A	
Charging short circuit protection	Blown	n fuse	
Wiring protection Certified specifications	Reverse polarity protection		
Certification	CE(EN62109-1)		
EMC certification level	EN61000, C2		
Operating temperature range	-15°C to 55°C		
Storage temperature range	-25°C -	~ 60°C	
Humidity range	5% to 95% (Conforma	al coating protection)	
	≤60dB		
Noise	Forced air cooling, variable speed of fan		
Noise Heat dissipation			
		variable speed of fan	

HF2420U60-100/HF2430U60-100



Performance characteristics

- · Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.
- · Two output modes: mains bypass and inverter output; uninterrupted power
- · Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- · Advanced MPPT technology with an efficiency of 99.9%.
- · With the charging requirement (voltage, current, mode) settings, and suitable for various types of energy storage batteries.
- · ON/OFF rocker switch for AC output control.
- · Power saving mode available to reduce no-load loss.
- · Intelligent variable speed fan to efficiently dissipate heat and extend system
- · Lithium battery activation design, allowing access of lead-acid battery and
- lithium battery. 360 ° all-round protection with a number of protection functions. Such as overload, short circuit and over current.
- · Supply of a variety of user-friendly communication modules, such as RS485(GPRS,WiFi), CAN, USB etc.,
- and suitable for computer, mobile phones, Internet monitoring as well as remoteoperations.
- · Lithium battey can be activated by both mains and PV.

Application scenarios



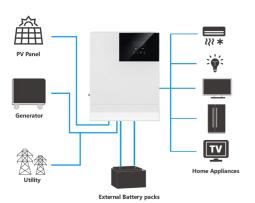




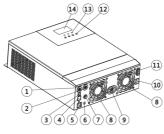




Product connection diagram



Product characteristics



1	AC input port	8	Cooling fan
2	AC output port	9	Battery port
3	USB communication port	10	ON/OFF rocker switch
4	RS485 communication port	111	PV port
6	Dry node port	12	Touch button
6	Grounding screw hole	13	LED Indicator
7	AC input Overload	(14)	LCD screen

Models	HF2420U60-100	HF2430U60-100	
AC mode			
Rated input voltage	110/1	.20Vac	
Input voltage range	(90Vac-140Vac)±2%		
Frequency	50Hz/ 60Hz (Auto detection)		
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);		
Overload/short circuit protection	Circuit breaker		
Efficiency	>9	15%	
Conversion time (bypass and inverter)	10ms	(typical)	
AC reverse protection	Ava	ilable	
Maximum bypass overload current	4	0A	
Inverter mode			
Output voltage waveform	Pure si	ne wave	
Rated output power (VA)	2000	3000	
Rated output power (W)	2000	3000	
Power factor		1	
Rated output voltage (Vac)	120	OVac	
Output voltage error	±	5%	
Output frequency range (Hz)	50Hz ± 0.3Hz	/60Hz ± 0.3Hz	
Efficiency	>9	2%	
Overload protection	$(102\% < load < 110\%) \pm 10\%$: report error $(110\% < load < 125\%) \pm 10\%$: report error Load $> 125\% \pm 10\%$: report error and turn	and turn off the output after5 minutes; or and turn off the output after 10 seconds; offthe output after 5 seconds;	
Peak power	3000	4500	
Loaded motor capability	1HP	2HP	
Output short circuit protection	Circuit	breaker	
Bypass breaker specifications	4	0A	
Rated battery input voltage	24V (Minimum sta	arting voltage 22V)	
Battery voltage range	20.0Vdc~33Vdc ± 0.6Vdc (Undervoltage alarm/shutdown voltage,	/overvoltage alarm /overvoltage recovery settable on LCD so	
Power saving mode AC charging	Load	≤50W	
Battery type	Lead acid or l	ithium battery	
Maximum charge current	40A	40A	
Charge current error	± 5	Adc	
Charge voltage range	20.0Vde	c~33Vdc	
Short circuit protection		and blown fuse	
Circuit breaker specifications		0A	
Overcharge protection	Alarm and turn off charging after 1 minute		
PV charging			
Maximum PV open circuit voltage	100)Vdc	
PV operating voltage range		00Vdc	
MPPT voltage range		85Vdc	
Battery voltage range		3Vdc	
Maximum output power		00W	
PV charging current range (can be set)		60A	
Charging short circuit protection		n fuse	
Wiring protection Certified specifications	BIOWN TUSE Reverse polarity protection		
Certification	CE(EN62109-1)		
EMC certification level	EN61000, C2		
Operating temperature range	-15°C to 55°C		
Storage temperature range	-15 € 10 55 € -25°C ~ 60°C		
Humidity range		al coating protection)	
Noise		OdB	
Heat dissipation		variable speed of fan	
Communication interface		C. CHROLOGO POLICE CONTROL CON	
	USB/RS485(WiFi/GPRS)/Dry node control 378*280*103mm		
Size (L*W*D)	378*280)*103mm	

HF4830S60-H/HF4850S80-H HF4835U60-H/HF4850U80-H



Performance characteristics

·Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.

·Two output modes: mains bypass and inverter output; uninterrupted power

·Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.

Advanced MPPT technology with an efficiency of 99.9%.

·With the charging requirement (voltage, current, mode) settings, and suitable for various types of energystorage batteries.

·ON/OFF rocker switch for AC output control.

·Power saving mode available to reduce no-load loss.

·Intelligent variable speed fan to efficiently dissipate heat and extend system life. ·Lithium battery activation design, allowing access of lead-acid battery and

·360 ° all-round protection with a number of protection functions. Such as overload, short circuit and overcurrent.

·Supply of a variety of user-friendly communication modules, such as Rs485 (GPRS,WiFi), CAN, USB etc., and suitable for computer, mobile phones, Internetmonitoring as well as remote operations.

Application scenarios





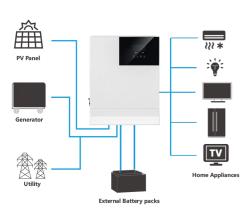




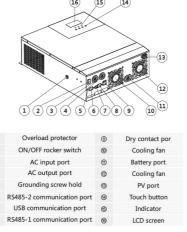




Product connection diagram



Product characteristics



Model	HF4830S60-H	HF4850S80-H	HF4835U60-H	HF4850U80-H	
AC mode					
Rated input voltage	220/230Vac 110/			.20Vac	
Input voltage range	(170Vac~280Vac) ±2%; (90Vac-280Vac)±2% (90Vac~14			10Vac)±2%	
Frequency	50Hz/ 60Hz (auto-sensing)				
Frequency Range		47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);			
Overload/short circuit protection		Brea	aker		
Efficiency		>95	i%		
Conversion time (bypass and inverter)		10ms (Typi	ical value)		
AC reverse protection		Availa	able		
Maximum bypass overload current		40A		63A	
Inverting mode					
Output voltage waveform		Pure sin	e wave		
Rated output power(VA)	3000 (2600/2700/3000)	5000 (4350/4500/4800/5000)	3500(2900/3000/3200)	5000(4100/4300/4500	
Rated output power(W)	3000 (2600/2700/3000)	5000 (4350/4500/4800/5000)	3500(2900/3000/3200)	5000(4100/4300/4500	
Power factor	, , , , , , , , , , , , , , , , , , , ,	1		, , , , , , , , , , , , , , , , , , , ,	
Rated output voltage (Vac)	230Vac (200/208/2		120Vac (100/105	/110Vac settable)	
Output voltage error	250400 (200/200/2	±5'		, 220 vac Sectable,	
Output frequency range (Hz)		50Hz ± 0.3Hz/			
Efficiency		>90			
Efficiency	(10.2% < load < 1.25%) ±10% : rop			porting arror and turn off t	
Overload protection	output after 5 minutes; (125% <load<150%) rep<br="" ±10%:="">output after 10 seconds; Load>150% ±10%: reporting e after 5 seconds;</load<150%)>	10.2%<-(bad < 1.2%) ± 1.0%: reporting error and turn off the uptup after 5 minutes; 10.2%<-(bad < 1.50%) ± 1.0%: reporting error and turn off the uptup after 10 minutes; 10.4%: (bad < 1.50%) ± 1.0%: reporting error and turn offthe output after 10 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting error and turn offthe output after 10 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting after 5 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting after 5 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting after 5 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting after 5 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting after 5 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting after 5 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting after 5 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting after 5 seconds; 10.4%: (bad < 1.2%) ± 1.0%: reporting after 10.4%: (bad < 1.2%) ± 1.0%: reporting after 10.4%: (bad < 1.2%) ± 1.0%: (bad < 1.2%) ±			
Peak power	6000VA	10000VA	5000VA	7000VA	
Loaded motor capacity	2HP	4HP	2HP	3HP	
Output short-circuit protection	Breaker				
Specification of bypass breaker		40A		63A	
Rated battery input voltage	48V (minimum start voltage 44V)				
Battery voltage range	40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen				
Power saving mode	Load ≤50W				
AC charge	road 330				
Battery type		Lead acid or lit	thium battery		
Maximum charge current	60			0A	
Charge current error		± 5A			
Charge voltage range		40Vdc~			
Short-circuit protection		Breaker and			
Breaker specification		40A		63A	
Overcharge protection		Turn off charge a	fter 1min alarm	03A	
Solar charge		ium on charge a	iter ziiiii didiiii		
Maximum PV opencircuit voltage	500	Mde	450Vdc	500Vdc	
PV operation voltage range		00Vdc	120-450Vdc	120-500Vdc	
MPPT voltage range		50Vdc	120-430Vdc	120-450Vdc	
The state of the s	120-4	40-60		120-450VdC	
Battery voltage range	4200W	5000W	4200W	5000W	
Maximum output power	4200W 0-60A	0-80A		0-80A	
Charge current range of solar energy (settable)	U-6UA		0-60A	U-8UA	
Charge short-circuit protection		Blown			
Wiring protection		Inverse wiring	g protection		
Authentication specification					
Specification authentication	CE(IEC62109)、RoHs				
EMC authentication grade	EN61000				
Operation temperature range	-15°C to 55°C				
Storage temperature range		-25°C ~			
Humidity range		5% to 95% (Conforma			
Noise		≤60	dB		
Thermal dissipation		Forced cooling with a	adjustable air speed		
Communication interface	USB/RS485 (WiFi/GPRS)/dry node control				
Dimension (L*W*D)		426*322*	126mm		
Dimension (L*W*D)			126mm		
Weight (kg)		10.9		11.6	