

All-in-one solar charger inverter

SR-HFP4835U80-145



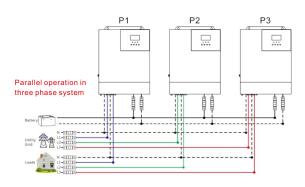
Product overview

HFP series is a new all-in-one hybrid solar charge inverter, which integrates solar energy storage & means charging energy storage and AC sine wave output. Thanks to DSP control and advanced control algorithm, it has high response speed, high reliability and high industrial standard.

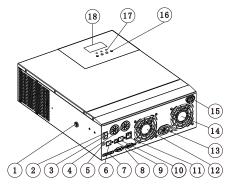
Performance characteristics

- 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 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%. 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.
- 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, Bluetooth), 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.

Product connection diagram example



Appearance



1	Overload protector	10	RS485-1 communication port
2	ON/OFF rocker switch	11)	Dry contact port
3	AC input port	12	Cooling fan
4	AC output port	13	Battery port
5	Grounding screw hold	14)	Cooling fan
6	RS485-2 communication port	(15)	PV port
7	Current sharing port (parallel module only)	16	Touch the key lightly
8	Parallel communication port (parallel module only)	17	Indicator light
9	USB communication port	18	LCD screen

Technical parameters >>>

Models	HFP4835U80-145		
AC mode			
Rated input voltage	110/120Vac		
Input voltage range	(90Vac~140Vac) ±2%		
Frequency	50Hz/ 60Hz (Auto detection)		
Number of parallel / split phases	1-6		
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)	3500		
Rated output power (W)	3500		
Power factor	1		
Rated output voltage (Vac)	120Vac		
Output voltage error	±5%		
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
Maximum Efficiency	>91%		
Maximani Lincicity			
Overload protection	$(102\% < load < 110\%) \pm 10\%$: report error and turn off the output after 5 minutes; $(110\% < load < 125\%) \pm 10\%$: report error and turn off the output after 10 seconds; $(load > 125\% \pm 10\%)$: report error and turn off the output after 5 seconds;		
Peak power	6000VA		
Loaded motor capability	2HP		
Output short circuit protection	Circuit breaker		
Bypass breaker specifications	40A		
Rated battery input voltage	48V (Minimum starting voltage 44V)		
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery settable on LCD screen)		
Power saving mode	Load ≤50W		
AC charging			
Battery type	Lead acid or lithium battery		
Maximum charge current	0-40A		
Charge current error	± 3Adc		
Charge voltage range	40 –60Vdc		
Short circuit protection	Circuit breaker and blown fuse		
Circuit breaker specifications	40A		
Overcharge protection	Alarm and turn off charging after 1 minute		
PV charging	Admin and tank on charging after 1 minute		
	145//4-		
Maximum PV open circuit voltage	145Vdc		
PV operating voltage range	60-145Vdc		
MPPT voltage range Battery voltage range	60-115Vdc 40-60Vdc		
Maximum PV input power	40-60Vac 4400W		
Maximum PV input power Maximum PV input current	4400W 50A		
Maximum charger power	50A 4200W		
	4200W 0-80A		
PV charging current range (can be set) Charging short circuit protection			
Charging short circuit protection	Blown fuse		
Wiring protection	Reverse polarity protection		
Certified specifications	CERTE COMO AVETAUL COM COMO AND AND AND		
Certification	CE(IEC 62109-1)/ETL(UL 1741/CSA C22.2 NO.107.1)		
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% (Conformal coating protection)		
Noise	≤60dB		
Heat dissipation	Forced air cooling, variable speed of fan		
Communication interface	USB/RS485(WiFi/GPRS)/Dry node control		
Size (L*W*D)	426mm*322mm*124mm		