



## 2KW~5KW

- 采用全数字化电压电流双闭环控制，先进的 SPWM 技术，输出纯正正弦波。
- 拥有市电旁路、逆变输出两种输出方式，具备不间断供电功能。
- 拥有 4 种充电模式可选：仅太阳能、市电优先、太阳能优先、混合充电。
- 先进的 MPPT 技术，效率高达 99.9%。
- LCD 液晶屏设计、3 个 LED 指示灯，动态显示系统数据及运行状态。
- ON/OFF 船型开关控制交流输出。
- 具有省电模式功能，降低空载损耗。
- 采用智能可调速风扇，高效散热，延长系统寿命。
- 自带锂电池激活功能，支持铅酸电池、锂电池接入。
- 拥有多项保护功能，360° 全方位防护。
- 具备完备的短路保护，过欠压保护，过载保护，反灌保护等。
- 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 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%.
- Designed with a LCD screen and 3 LED indicators for dynamic display of system data and operating status.
- 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.
- Complete protections, including short circuit protection, over voltage and under voltage protection, overload protection, reverse protection, etc.

Models	HF4830S60	HF4840S60	HF4850S80	HF4825U60	HF4830U60	HF4835U80
Rated input voltage	220/230Vac			110/120Vac		
Input voltage range	(170Vac~280Vac) ±2%/(90Vac~280Vac)±2%			(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					
Output voltage waveform	Pure sine wave					
Rated output power (VA)	3000	4000	5000	2500	3000	3500
Rated output power (W)	3000	4000	5000	2500	3000	3500
Power factor						
Rated output voltage (Vac)	230Vac			120Vac		
Output voltage error	±5%					
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz					
Efficiency	>90%					
Overload protection	"(102% < load <125%) ±10%: report error and turn off the output after 5 minutes;(125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds;Load >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%: report error and turn off the output after 10 seconds;(Load >125% ±10%): report error and turn off the output after 5 seconds;"		
Peak power	6000VA	8000VA	10000VA	5000VA	6000VA	7000VA
Loaded motor capability	2HP	3HP	4HP	1HP	1HP	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 ≤25W					
Battery type	Lead acid or lithium battery					
Maximum charge current	60A			30A		
Charge current error	± 5A <sub>dc</sub>					
Charge voltage range	40 ~58V <sub>dc</sub>			40 ~60V <sub>dc</sub>		
Short circuit protection	Circuit breaker and blown fuse					
Circuit breaker specifications	40A					
Overcharge protection	Alarm and turn off charging after 1 minute					
Maximum PV open circuit voltage	145V <sub>dc</sub>					
PV operating voltage range	80-145V <sub>dc</sub>					
MPPT voltage range	80-115V <sub>dc</sub>					
Battery voltage range	40-60V <sub>dc</sub>					
Maximum output power	3200W		4200W	3200W		4200W
PV charging current range (can be set)	0-60A		0-80A	0-60A		0-80A
Charging short circuit protection	Blown fuse					
Wiring protection	Reverse polarity protection					
Certified specifications						
Certification	CE(EN62040-1)					
EMC certification level	EN62040-2, 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(Bluetooth/WIFI/GPRS)/Dry node control					
Size (L*W*D)	430mm*338mm*126mm					
Weight (kg)	10					