



HF48V series

All in one solar charge inverter

HF4830S60-145 HF4835U80-145
HF4850S80-145 HF4835U60-H
HF4850S80-H HF4850U80-H



230V



48V



3KW-5KW



145/500V



IP20

Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Support for many types of batteries
- Support for Li-ion battery BMS communication

Reliable

- Outputs high quality pure sine wave AC power
- Reliable output for long periods at rated power

Safety

- 360 degrees of security from hardware to software
- With IEC, SAA, cETL, FCC certification

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating parameters

Parameters

MODEL	RS-HF4830S60-145	RS-HF4850S80-145	RS-HF4850S80-H	CAN BE SET
INVERTER OUTPUT				
Rated Output Power	3000W	5000W	5000W	
Max.Peak Power	6000VA	10000VA	10000VA	
Rated Output Voltage	230Vac (single phase)			√
Load Capacity of Motors	2HP	4HP	4HP	
Rated AC Frequency	50/60Hz			
Waveform	pure sine wave			
Switch Time	10ms (typical)			
BATTERY				
Battery Type	Lead-acid / Li-ion / User Defined			√
Rated Battery Voltage	48Vdc			
Voltage Range	40~60Vdc			√
Max.MPPT Charging Current	60A	80A	60A	√
Max.Mains/Generator Charging Current	60A			√
Max.Hybrid Charging Current	120A	140A	80A	√
PV INPUT				
Num. of MPP Trackers	1			
Max.PV array power	3400W	4400W	5200W	
Max.input current	40A	50A	18A	
Max.Voltage of Open Circuit	145Vdc	145Vdc	500Vdc	
MPPT Voltage Range	60~115Vdc	60~115Vdc	120~450Vdc	
MAINS / GENERATOR INPUT				
Input Voltage Range	170 ~ 280Vac			√
Frequency Range	50/60Hz			√
Bypass Overload Current	30A	40A	40A	
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Battery Inverter Efficiency	92%			
GENERAL				
Dimensions	378*280*103mm	426*322*124mm		
Weight	6.2kg	10.8kg	10.9kg	
Protection Degree	IP20, Indor Only			
Operating Temperature Range	-15°C~55°C			
Humidity	<60dB			
Cooling Method	Internal Fan			
Humidity	0 ~ 100%			
COMMUNICATION				
Embedded Interfaces	RS485 / CAN / USB / Dry contact			
External Modules (Optional)	Wi-Fi / GPRS			

MODEL	RS-HF4835U80-145	RS-HF4835U60-H	RS-HF4835U80-H	CAN BE SET
INVERTER OUTPUT				
Rated Output Power	3500W	3500W	5000W	
Max.Peak Power	6000VA	7000VA	10000VA	
Rated Output Voltage	120Vac (single phase)			√
Load Capacity of Motors	2HP	2HP	4HP	
Rated AC Frequency	50/60Hz			
Waveform	pure sine wave			
Switch Time	10ms (typical)			
BATTERY				
Battery Type	Lead-acid / Li-ion / User Defined			√
Rated Battery Voltage	48Vdc			
Voltage Range	40~60Vdc			√
Max.MPPT Charging Current	80A	60A	80A	√
Max.Mains/Generator Charging Current	40A			√
Max.Hybrid Charging Current	120A	80A	80A	√
PV INPUT				
Num. of MPP Trackers	1			
Max.PV array power	4400W	4400W	5200W	
Max.input current	50A	18A	18A	
Max.Voltage of Open Circuit	145Vdc	500Vdc	500Vdc	
MPPT Voltage Range	60~115Vdc	120~450Vdc	120~450Vdc	
MAINS / GENERATOR INPUT				
Input Voltage Range	90 ~ 140Vac			√
Frequency Range	50/60Hz			√
Bypass Overload Current	40A	30A	40A	
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Battery Inverter Efficiency	92%			
GENERAL				
Dimensions	426*322*124mm			
Weight	10.8kg	10.9kg	10.9kg	
Protection Degree	IP20, Indor Only			
Operating Temperature Range	-15°C~55°C			
Humidity	<60dB			
Cooling Method	Internal Fan			
Humidity	0 ~ 100%			
COMMUNICATION				
Embedded Interfaces	RS485 / CAN / USB / Dry contact			
External Modules (Optional)	Wi-Fi / GPRS			