

HFP-C SERIES

HYBRID SOLAR INVERTER

4.3KW-12.3KW



Pure sine wave



WiFi



Two-way energy storage design



Dual output intelligent load management



Support working without battery



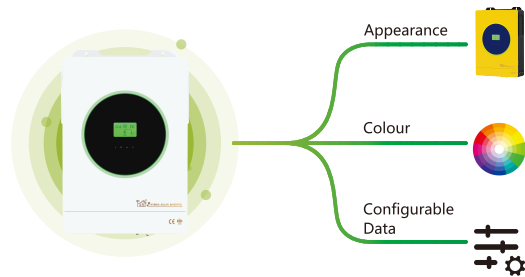
RS485



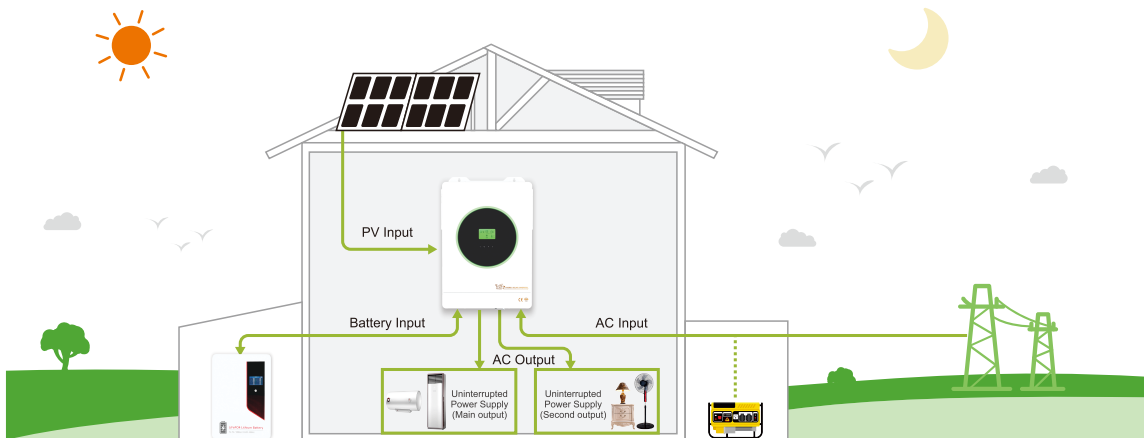
Features

- Dual output, intelligent load management design;
- Adopting high-frequency design, high power density, small size, and high overall efficiency;
- Bidirectional energy storage design, which can achieve bidirectional flow control of electrical energy, and both photovoltaic and mains electricity can be charged to the battery;
- Customizable RGB circular LED lights;
- Ultra wide MPPT range, with a minimum of 40Vdc(24V models) / 80Vdc(48V models);
- Capable of setting working modes (grid connected mode, off grid mode, hybrid mode);
- Equipped with output priority setting function;
- Equipped with charging priority setting function;
- Equipped with lithium battery BMS communication function;
- Equipped with dust-proof kit;
- Support battery-less operation mode.

OEM/ODM



Connection Diagram



HFP-C Hybrid Solar Inverter 4.3KW-12.3KW

Technical Parameters

Model: HFP-C	43224	50248	63248	83248	103248	123248
Rated Power	4300W	5000W	6300W	8300W	10.3KW	12.3KW
Maximum Main Output Power	4300W	5000W	6300W	8300W	10.3KW	12.3KW
Maximum Second Output Power	1290W	1500W	1890W	2490W	3.09KW	3.69KW
PV Input						
Max PV Input Power	5000W	6000W	7000W	4500W*2	6000W*2	6000W*2
MPPT Tracking Voltage Range	40Vdc~450Vdc	80Vdc~450Vdc				
Rated Voltage	240Vdc			280Vdc		
Max PV Input Voltage (VOC) (at the lowest temperature)	500Vdc					
Max PV Input Current	18A		27A	18A*2	22A*2	27A*2
MPPT Tracking Channels(Input Routed)	1 Routed			2 Routed		
Battery & Charging						
Battery Type	Lead-acid Battery/Lithium Battery					
	Custom Battery (Charging and discharging paramcters of different types of batteriescan be set through the operation board)					
Rated Battery Voltage	24Vdc	48Vdc				
Battery voltage Range	21~30Vdc (default)	42~60Vdc (default)				
Max PV Charging Current	150A	100A	120A	150A	180A	200A
Max AC Charging Current	100A	60A	80A	100A	120A	140A
Max Charging Current	150A	100A	120A	150A	180A	200A
Off-Grid Operation						
AC Input						
Rated Input voltage	230V (220V or 240V Can be set)					
Mains input voltage range	165Vac~280Vac / 120Vac~280Vac (Can be set)					
Rated Input Frequency	50Hz / 60Hz					
Input Frequency Range	45Hz~55Hz(50Hz),55Hz~65Hz(60Hz)					
AC Output						
Rated Output Voltage	230V (220V or 240V Can be set)					
Output Voltage Accuracy	±2%					
Rated Input Frequency	50Hz / 60Hz					
Output Frequency Accuracy	±1%					
Output Wave	Pure Sine Wave					
Hybrid Operation						
AC Input						
Rated Input voltage	230V (220V or 240V Can be set)					
Mains input voltage range	187Vac~264Vac					
Rated Input Frequency	50Hz / 60Hz					
Input Frequency Range	47Hz~52Hz(50Hz),57Hz~62Hz(60Hz)					
AC Output						
Rated Voltage Rated	230Vac (220Vac or 240Vac Can be set)					
Output Current	18.7A	21.7A	27.4A	36.1A	44.9A	53.5A
On-Grid Operation						
AC Output						
Rated Output Voltage	230Vac (220Vac or 240Vac Can be set)					
Grid Voltage Range	187Vac ~ 264Vac					
Rated Output Frequency	50Hz / 60Hz					
Frequency Range	47Hz~52Hz(50Hz),57Hz~62Hz(60Hz)					
Rated Output Current	18.7A	21.7A	27.4A	36.1A	44.9A	53.5A
Power Factor	> 0.98(Rated Power)					
Regular Parameters						
Maximum Conversion Efficiency (Battery Discharge)	94%(peak value)					
No load loss (Battery Discharge)	1% Rated Power (Typical value)					
MPPT Tracking Efficiency	≥99.9					
Transfer Time	10ms(Typical value)					
Display	LCD+LED					
Cooling Method	Cooling fan in intelligent control					
Communication	RS485/Mobile APP(WIFI Monitoring or GPRS monitoring))(Optional)					
Protection Degree	IP20					
Installation	Wall-Mounted					
Protect						
Battery low voltage alarm	22Vdc (default value)	44Vdc (default value)				
Battery low voltage protection	21Vdc (default value)	42Vdc (default value)				
Anti-islanding protection	≤2S					
Overload power protection	Automatic Protection (battery mode),Circuit Breaker or Insurance (AC mode)					
Output short circuit protection	Automatic Protection (battery mode),Circuit Breaker or Insurance (AC mode)					
Temperature protection	> 90°C (turn off inverter and charging)					
Environment						
Operating temperature	-10C~50°C					
Storage temperature	-15C~60°C					
Nois	≤55dB					
Elevation	2000m (More than derating)					
Humidity	0%~95% ,No condensation					
Dimensions And Weight						
Product Size(L*W*Hmm)	375*297*102		390*320*112	515*365*117	535*462*117	630*540*130
Package Size(L*W*Hmm)	450*352*167		465*375*187	615*460*212	630*557*212	730*635*225
N.W.(kg)	6.6	7	8	13	14.5	22
G.W.(kg)	7.6	8	9.5	15	17	25

Note: 1. Specifications are subject to change without prior notice;
2. Special voltage and power requirements can be customized according to the actual situation of users.