

HFP-E SERIES

HYBRID SOLAR INVERTER

3.3KW-12.3KW



Pure sine wave



WiFi



Two-way energy
storage design



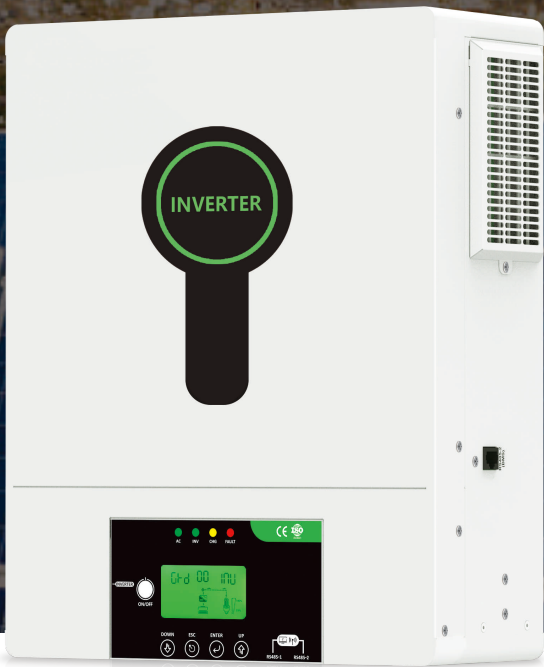
Dual output
intelligent load
management



Support working
without battery



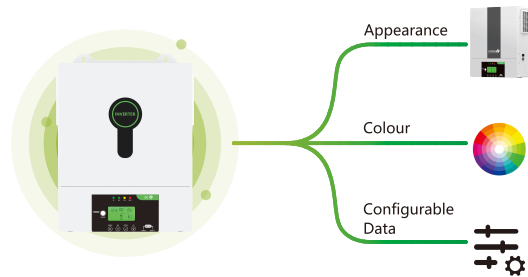
RS485



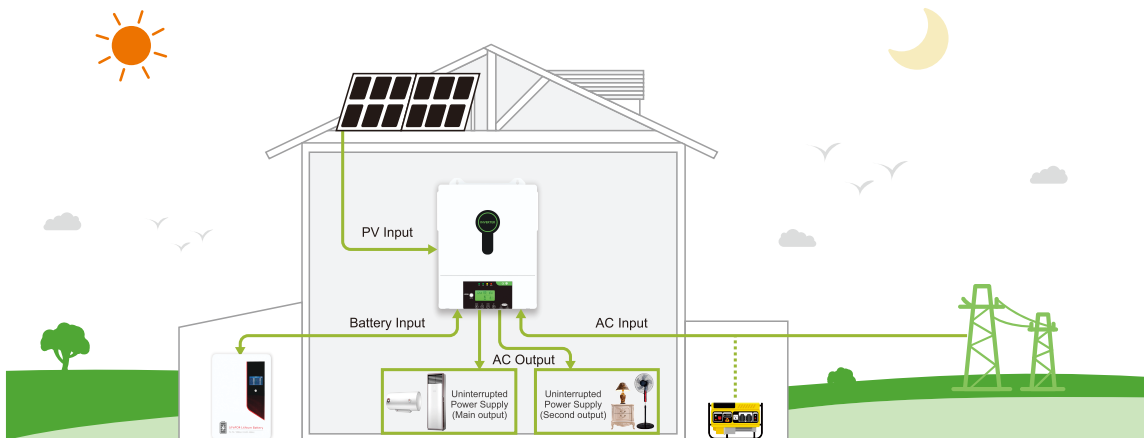
Features

- Adopting high-frequency design, high power density, small size, and high overall efficiency;
- Detachable LCD control module design, suitable for different installation scenarios;
- 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;
- 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 grid connected current setting function;
- Equipped with output priority setting function;
- Equipped with charging priority setting function;
- Equipped with lithium battery BMS communication function;
- Support battery-less operation mode.

OEM/ODM



Connection Diagram



HFP-E Hybrid Solar Inverter 3.3KW-12.3KW

Technical Parameters

Model: HFP-E	33224	43224	50248	63248	83248	103248	123248
Rated Power	3300W	4300W	5000W	6300W	8300W	10.3KW	12.3KW
Maximum Main Output Power	3300W	4300W	5000W	6300W	8300W	10.3KW	12.3KW
Maximum Second Output Power	990W	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	120A	150A	100A	120A	150A	180A	200A
Max AC Charging Current	80A	100A	60A	80A	100A	120A	140A
Max Charging Current	120A	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	14.3A	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	14.3A	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)	325*275*102	375*297*124		390*320*112	515*365*117	535*462*117	630*540*130
Package Size(L*W*Hmm)	400*330*167	450*352*189		465*375*187	615*460*212	630*557*212	730*635*225
N.W.(kg)	5.5	7.3	7.7	8	13	14.7	22
G.W.(kg)	6.5	8.3	8.7	9.5	14.5	16.7	24.5

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.