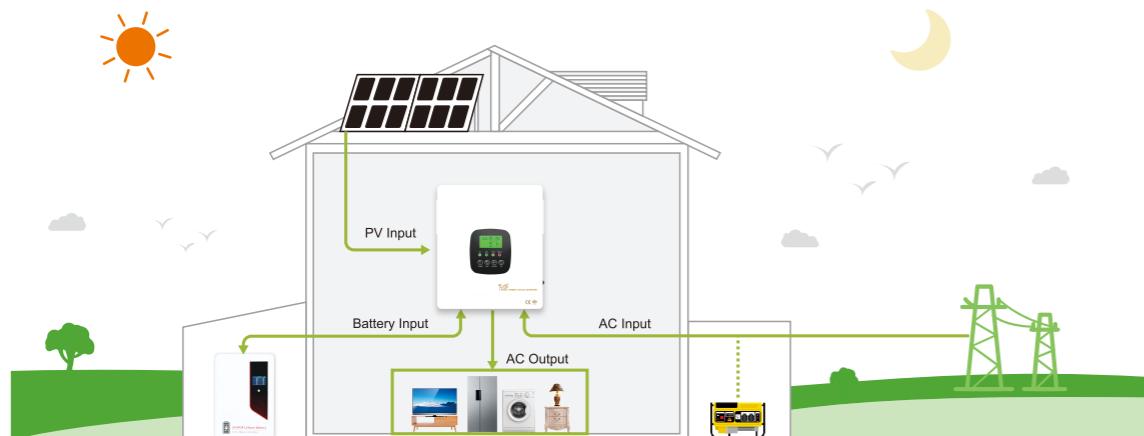




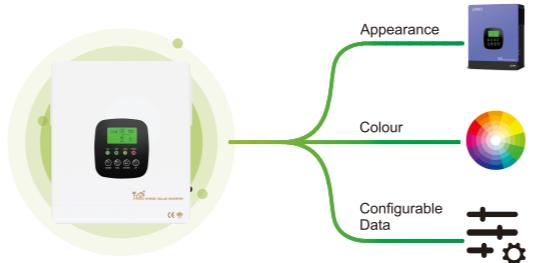
Features

- 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;
- 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.

Connection Diagram



OEM/ODM



HFP Hybrid Solar Inverter 1.3KW-12.3KW

Technical Parameters

Model: HFP	13212	18212	18224	23224	33224	43224	50248	63248	83248	103248	123248
Rated Power	1300W	1800W	1800W	2300W	3300W	4300W	5000W	6300W	8300W	10.3kW	12.3kW
PV Input											
Max PV Input Power	2000W	2500W	2500W	3000W	5000W	6000W	7000W	4500W*2	6000W*2	6000W*2	6000W*2
MPPT Tracking Voltage Range	30Vdc-240Vdc	40Vdc-350Vdc	40Vdc-450Vdc					80Vdc-450Vdc			
Rated Voltage	180Vdc			240Vdc						280Vdc	
Max PV Input Voltage (VOC) (at the lowest temperature)	300Vdc	400Vdc						500Vdc			
Max PV Input Current		15A			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										
Rated Battery Voltage	Custom Battery (Charging and discharging parameters of different types of batteries can be set through the operation board)										
Battery voltage Range	10.5~15Vdc (default)	21~30Vdc (default)						48Vdc			
Max PV Charging Current	80A	100A	60A	80A	120A	150A	100A	120A	150A	180A	200A
Max AC Charging Current	50A	65A	35A	50A	80A	100A	60A	80A	100A	120A	140A
Max Charging Current	80A	100A	60A	80A	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	5.6A	7.8A	7.8A	10A	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	5.6A	7.8A	7.8A	10A	14.3A	18.7A	21.7A	27.4A	36.1A	44.9A	53.5A
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	11Vdc(default value)	22Vdc (default value)									44Vdc (default value)
Battery low voltage protection	10.5Vdc(default value)	21Vdc (default value)									42Vdc (default value)
Anti-islanding protection	≤2S										
Overload power protection	Automatic Protection (