

North & Latin America

HYBRID SOLAR INVERTER

3.3KW-6.3KW



Pure sine wave



WiFi



Two-way energy
storage design



Configurable
working mode



Support working
without battery



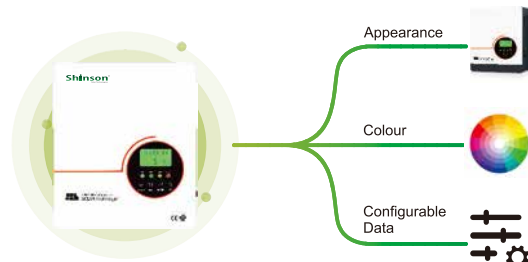
RS485



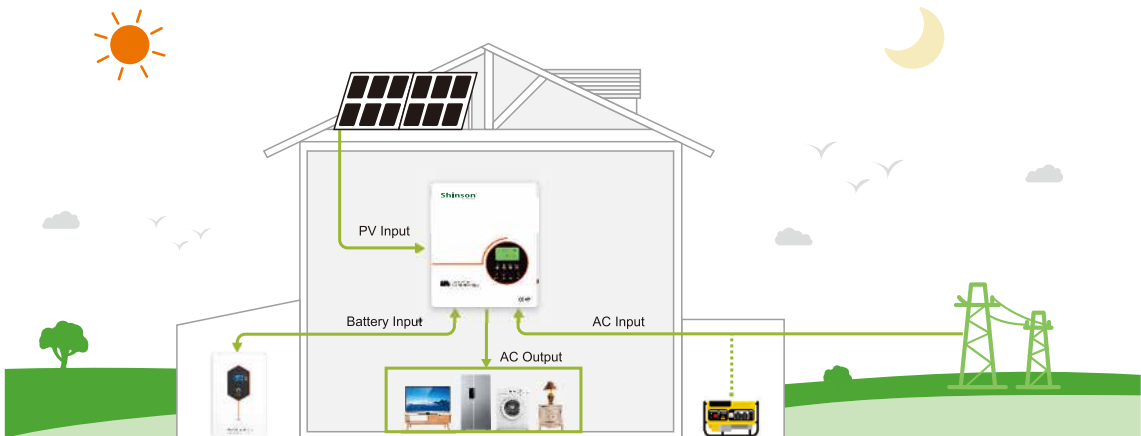
Features

- 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.

OEM/ODM



Connection Diagram



Hybrid Solar Inverter 3.3KW-6.3KW

Technical Parameters

Model: HFU	OSG3K-US	OSG6K-US
Rated Power	3300W	6300W
PV Input		
Max PV Input Power	5000W	5000W*2
MPPT Tracking Voltage Range	40Vdc-450Vdc	80Vdc~450Vdc
Rated Voltage	280Vdc	
Max PV Input Voltage voc (at the lowest temperature)	500Vdc	
Max PV Input Current	18A	18A*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	
Max AC Charging Current	80A	
Max Charging Current	120A	
Off-Grid Operation		
AC Input		
Rated Input voltage	105Vac/110Vac/115Vac/120Vac	
Mains input voltage range	85Vac~140Vac	
Rated Input Frequency	50Hz / 60Hz	
Input Frequency Range	45Hz~55Hz(50Hz), 55Hz~65Hz(60Hz)	
AC Output		
Rated Output Voltage	105Vac/110Vac/115Vac/120Vac	
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	105Vac/110Vac/115Vac/120Vac	
Mains input voltage range	93Vac~132Vac	
Rated Input Frequency	50Hz / 60Hz	
Input Frequency Range	47Hz~52Hz(50Hz), 57Hz~62Hz(60Hz)	
AC Output		
Rated Voltage Rated	105Vac/110Vac/115Vac/120Vac	
Output Current	31.4A/30A/28.7A/27.5A	60A/57.3A/54.8A/52.5A
On-Grid Operation		
AC Output		
Rated Output Voltage	105Vac/110Vac/115Vac/120Vac	
Grid Voltage Range	93Vac~132Vac	
Rated Output Frequency	50Hz / 60Hz	
Frequency Range	47Hz~52Hz(50Hz),57Hz~62Hz(60Hz)	
Rated Output Current	31.4A/30A/28.7A/27.5A	60A/57.3A/54.8A/52.5A
Power Factor	> 0.98 (Rated Power)	
Regular Parameters		
Maximum Conversion Efficiency (Battery Discharge)	92% (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/dry contact/mobile phone APP (WIFI 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)	44Vdc (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		
Output Short Circuit Protection	-10C~50°C	
Storage temperature	-15C~60°C	
Noise	≤55dB	
Elevation	2000m(More than derating)	
Humidity	0%~95% ,No condensation	
Dimensions And Weight		
Product Size(L*W*Hmm)	375*297*102	431*378.5*123
Package Size(L*W*Hmm)	450*352*167	506*416*192

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.