

North & Latin America

SPLIT PHASE HIGH FREQUENCY INVERTER / SOLAR INVERTER

10KW-12KW



Pure sine wave



MPPT



WiFi



Dual output voltage



Configurable Battery



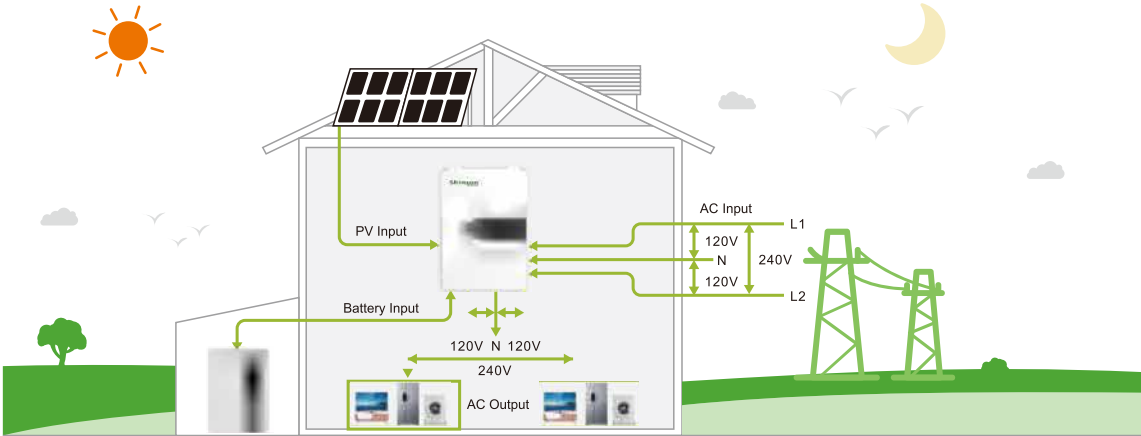
RS485



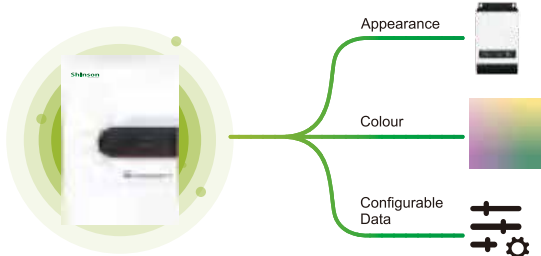
Features

- Pure sine wave output;
- Support setting split phase input/split phase output or American standard single-phase input/American standard single-phase output function;
- High frequency design, high efficiency, low no-load loss;
- Built in MPPT solar controller, with a maximum solar input voltage of 500V;
- Support hybrid solar and mains power supply for load power and battery charging;
- Intelligent panel settings (working mode, charging current, charging voltage, AC output voltage/frequency, etc.);
- Support supplying power to loads without batteries (not running in parallel);
- Supports up to 6 parallel operations (single-phase parallel or three-phase parallel);
- Support the function of setting charging and discharging in different time periods, utilizing peak and valley electricity prices to save electricity costs;
- Multiple protection functions (overload, over temperature, short circuit protection, etc.);
- Equipped with lithium battery activation function and supporting lithium battery BMS communication function;
- Support multiple external communication functions.

Connection Diagram



OEM/ODM



Split Phase High Frequency Inverter/ Solar Inverter 10KW-12KW

Technical Parameters

Model: HU		OSG10K-US	OSG12K-US
Rated Power		10KW	12KW
PV Input			
Max PV Input Power		5500W*2	6500W*2
MPPT Tracking Voltage Range		125Vdc~425Vdc	
Rated Voltage		360Vdc	
Max PV Input Voltage voc (at the lowest temperature)		500Vdc	
Max PV Input Current		22A*2	
MPPT Tracking Channels (Input 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		48Vdc	
Battery Voltage Range		42~60Vdc (default)	
Max PV Charging Current		200A	220A
Max AC Charging Current		120A	140A
Max Charging Current		200A	220A
AC Input			
Rated Input Voltage	Single Phase Input	100/105/110/120Vac	
	Split Phase Input	L1-N-L2 (L1-L2: 200/210/220/240Vac; L1-N/L2-N: 100/105/110/120Vac)	
Range Of Mains Input Voltage	Single Phase Input	85/90~140Vac	
	Split Phase Input	L1-N-L2 (L1-L2: 170/180~280Vac; L1-N/L2-N: 85/90~140Vac)	
Rated Input Frequency		50Hz/60Hz	
AC Output			
Rated Output Voltage	Single Phase Input	100/105/110/120Vac	
	Split Phase Input	L1-N-L2 (L1-L2: 200/210/220/240Vac; L1-N/L2-N: 100/105/110/120Vac)	
Output Voltage Accuracy		±2%	
Rated Input Frequency		50Hz/60Hz	
Output Frequency Accuracy		±1%	
Output Wave		Pure Sine Wave	
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		USB/RS485/dry contact/mobile app (WIFI monitoring or GPRS monitoring) (optional)	
Protection Degree		IP20	
Installation		Wall-Mounted	
Overload Protection		After triggering overload protection, the inverter will resume output after 3 minutes. If there are 5 consecutive overloads, the output will be turned off until the inverter restarts. (102%<load<110%) ± 10%: Error reported, output turned off after 5 minutes. (110%<load<125%) ± 10%: Error, turn off output after 10 seconds. Load>125% ± 10%: Error reported, output turned off after 5 seconds.	
Anti-islanding Protection		≤2S	
Overload Power Protection		Automatic Protection (battery mode),Circuit Breaker or Insurance (AC mode)	
Inverter Output Short Circuit Protection		Automatic Protection (battery mode),Circuit Breaker or Insurance (AC mode)	
Temperature Protection		> 90 °C(Turn off inverter and charging)	
Operating Temperature		-10°C~50°C	
Storage Temperature		-15°C~60°C	
Noise		≤55dB	
Elevation		2000m (More than derating)	
Humidity		0%~95% ,No condensation	
Dimensions and Weight			
Product Size(L*W*Hmm)		630*445*136.5	
Packing Size(L*W*Hmm)		725*540*225	
N.W.(kg)		21	21.5
G.W.(kg)		22	22.5

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.