



Features



Pure Sine Wave Output

Delivers stable and clean power output, ensuring safe operation for sensitive electronics and appliances.



Fast UPS Switching Time

Provides seamless power transfer with a 10ms UPS transfer time, protecting critical devices from interruptions.



High PV Input Capacity

Supports up to 500V DC solar input with an MPPT operating range of 70V-400V, maximizing solar energy harvesting.



Advanced Protection & Reliability

Equipped with overload, surge, short-circuit, anti-islanding, and grid protection features for enhanced safety and performance.

Specifications

Model

6.5KW

• Inverter Model

Input Voltage Waveform	Sinusoidal (utility or generator)
Nominal Input Voltage	230Vac
Low Loss Voltage	170Vac±7V (UPS); 90Vac±7V (Appliances)
Low Loss Return Voltage	180Vac±7V (UPS); 100Vac±7V (Appliances)
High Loss Voltage	280Vac±7V
High Loss Return Voltage	270Vac±7V
Max AC Input Voltage	300Vac
Nominal Input Frequency	50Hz / 60Hz (Auto detection)
Low Loss Frequency	40±1Hz
Low Loss Return Frequency	42±1Hz
High Loss Frequency	65±1Hz
High Loss Return Frequency	63±1Hz
Output Short Circuit Protection	Circuit Breaker
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)
Grid Connection Voltage (Open Anti-islanding protection)	190Vac-253Vac
Grid Connection Frequency (Open Anti-islanding protection)	50Hz / 47.5Hz-52.5Hz; 60Hz / 57.5Hz-62.5Hz
Rated Output Power	6.5KW
Maximum PV Input Power	6000KW+6000KW
Output Voltage Waveform	Pure Sine Wave
Output Voltage Regulation	230Vac±5%
Output Frequency	50Hz/60Hz
Overload Protection	105%~110%: 30s; ≥110%: 10s; ≥150%: 1s
Surge Capacity	2 × rated power for 2 seconds
No Load Power Consumption (LINE MODE)	< 10W
MAX. PV Input Voltage	500Vdc
Start-up Voltage	120Vdc
MPPT Voltage Range	70Vdc-400Vdc
Rated PV Input Voltage	370Vdc
Max. Operating PV Input Current	18A+18A
Safety Certification	CE
Operating Temperature Range	-10°C to 55°C, >45°C Derating
Storage Temperature	-15°C-60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Dimension (D×W×H), mm	335.5 × 245 × 103
Net Weight, kg	4.5