



6.6kW SP-HYBRID



Product Features

Multi-Function Output
Support On-Grid, Smart Load and Back up Load

High Efficiency
MPP Tracking Efficiency $\geq 99\%$
Maximum Battery Mode Conversion Efficiency $> 93\%$

Highly User-friendly Design
Low noise performance with perfect heat dissipation
Looks like a home appliance with stunning appearance
LCD Display with touch button

High PV Input Power
2 MPP Trackers, PV Input Power up to 13200W
Max. Solar Charging Current up to 140A

Powerful Performance
Continuous working under $100\% < \text{Load} < 110\%$
(if overtemperature protection is not triggered)
Intelligent time-of-use (TOU) mode to gain peak valley tariff

Solid Quality
IP66 Protection Design for harsh environmental condition
Warranty 5 years

Model	IHY-6K6L1C
Efficiency	
MPP Tracking Efficiency	99.9%
Max. Battery Mode Conversion Efficiency	>93%
PV Input	
Max. PV Input Power (W)	13200
Max. PV Input Voltage (V)	500
Start-up Voltage (V)	60
MPPT Voltage Range (V)	60-425
Max. Input Current (A)	20/20
Number of MPPT	2
Number of Strings per MPPT	1
AC Output	
Nominal Output Power (W)	6600
Max. Output Apparent Power (VA)	6600
Nominal Output Voltage (Vac)	220/230/240 (L+N+PE)
Max. Output Current (A)	30
Output Frequency (Hz)	50/60
Power Factor	0.8 Leading to 0.8 Lagging
Total Current Harmonic Distortion	<3%
Surge Power (VA)	13200 @5s
Overload Capability	10s @110%≤Load<140% 7s @140%≤Load<200%
AC Input	
Nominal Input Voltage (Vac)	230
Input Voltage Range (Vac)	90-280
Max. AC Input Current (A)	50 (Bypass Mode)
Nominal Operating Frequency (Hz)	50/60
Battery	
Battery Type	Lead-acid/Lithium-ion/User Defined
Rated Voltage (V)	48
Battery Voltage Range (V)	40-60
Max. Solar Charging Current (A)	140
Max. Mains/Generator Charging Current (A)	140
Max. Discharging Current (A)	140
General	
Dimensions (D*W*H mm)	180*309*420
Net Weight (kg)	15
Operating Temperature Range (°C)	-40 ~ +60 (>45°C Power Derating)
Max. Operating Altitude (m)	3000 (>2000m Power Derating)
Communication	WiFi/RS485/CAN/Dry Contact
Diesel Generator Support	Yes
Smart Load Support	Yes
Cooling Method	Intelligent Fan Cooling
Parallel Capability	Maximum 9 units
Noise (dB)	<55
Authentication Level	IEC62109-1,IEC62109-2,IEC61683
Protection	
Ingress Protection	IP66
PV Reverse Protection	Yes
Insulation Impedance Detection	Yes
Residual Current Monitoring	Yes
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TYPE II,AC: TYPE III