



6.6kW SP-HYBRID

Product Features

- Multi-function Output**
Support On-grid, Smart Load and Back-up Load
- High PV Input Power**
2 MPP Trackers, PV Input Power up to 13200W
Max. Solar Charging Current up to 140A
- High Efficiency**
MPPT Tracking Efficiency ≥99%
Maximum Battery Mode Conversion Efficiency >93%
- Powerful Performance**
Continuous Working under 100%<Load<110%
(If Overtemperature Protection is not Triggered)
Intelligent Time-of-use (TOU) Mode to Gain Peak Valley Tariff
- Highly User-friendly Design**
Low Noise Performance with Perfect Heat Dissipation
Looks like a Home Appliance with Stunning Apperance
LCD Display with Touch Button
- Solid Quality**
IP66 Protection Design for Harsh Environmental Condition
5-Year Replacement

Model	IHY-6K6L1C
Efficiency	
MPPT Efficiency	99.90%
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 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
AC Output	
Nominal AC Output Power (W)	6600
Max. Output Apparent Power (VA)	6600
Nominal AC Output Voltage (Vac)	220/230/240 (L+N+PE)
Max. Output Current (A)	30
Total Current Harmonic Distortion	<3%
Nominal AC Frequency (Hz)	50/60
Switch Time (ms)	<20 (Appliances)
Surge Power (VA)	13200 @ 5s
Overload Capability	110%≤Load<140% @ 10s 140%≤Load<200% @ 7s
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 (L*W*H, mm)	309*180*420
Net Weight (kg)	15
Operating Temperature Range (°C)	-40 ~ +60 (>45°C Power Derating)
Max. Operating Altitude (m)	3000 (>2000m Power Derating)
Communication	Wi-Fi/RS485/CAN/Dry Contact
Diesel Generator Support	Yes
Smart Load Support	Yes
Parallel Capability	Maximum 12 units
Cooling Method	Intelligent Fan Cooling
Noise (dB)	<55
Authentication Level	IEC62109-1, IEC62109-2, IEC61683
Protection	
Ingress Protection	IP66
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TYPE II; AC: TYPE III

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