

Solis 6 kW PRO – Technical Specifications

The Solis S6EH1P6K-L-PRO is a single-phase hybrid inverter designed for residential PV energy storage systems. It integrates solar, battery, and grid power management to maximize energy efficiency and reliability.

Parameter	Value / Range
Inverter Type	Single-phase hybrid / energy storage inverter
Rated AC Output Power	6kW
Max. Apparent Power	6.6kVA (200% for 10s)
Grid Voltage	220V / 230V (single phase)
Frequency	50 / 60Hz
Rated Output Current	30A
Power Factor	>0.99 (0.8 leading to 0.8 lagging)
THDi	<2% (at linear load)
Max. PV Input Power	9.6kW
Max. DC Input Voltage	600V
MPPT Voltage Range	90V – 520V
Number of MPPTs	2 (2 strings per MPPT)
Battery Compatibility	Li-ion, Lead-acid
Battery Voltage Range	40V – 60V
Max. Charge/Discharge Current	135A
Max. Charge/Discharge Power	6kW
Parallel Support	Yes, up to 6 units
Dimensions (W×H×D)	406×560×205mm
Weight	24kg
Operating Temperature	–40°C to +60°C
Max. Altitude	4000m
Cooling	Intelligent fan cooling
Protection	AFCI, Surge, Ground fault, Reverse polarity
IP Rating	IP66 (outdoor use)
UPS Switch Time	<4ms
Display/Communication	LED, RS485, Wi-Fi/Bluetooth

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