

RESIDENTIAL STORAGE INVERTER

SQ 6kW-LV-1P Hpro

Single Phase



IP65 design, more installation scenario



10 units in parallel in on / off grid



Smart fan control, less noise



3 units in parallel to built three phase



Opened front cover, easy wiring



Multiple Operation Modes



Wireless CT (optional), easy installation



User friendly LCD display + WIFI / Bluetooth monitoring

DATASHEET

Model	SQ 6kW-LV-1P Hpro
Battery Input Parameters (DC Input)	
Supported battery type	LiFePO ₄ or Lead-acid
Battery Voltage range	40 ~ 60 V
Max. charge / discharge current	120 A (Configurable) / 130 A (Configurable)
Battery capacity (Recommend)	100 ~ 2000 Ah
Battery communication	CAN
PV String Input Parameters (DC Input)	
Max. DC input power	4000 x 2=8000 W
Max. DC input voltage	500 V
MPPT voltage range	120 ~ 450 V
Start-up voltage	150 V
Max. input current	15 x 2 =30 A // 2 MPPT channels
AC Output Parameters (Back-Up) (Feed to essential load)	
Max. output power	6000 W
Max. / Peak output apparent power	6000 VA / 12000 VA
Max. output current	28 A
Nominal output voltage	220 V / 230 V / 240 V (Configurable) 1 phase
Nominal output frequency	50Hz / 60Hz (±0.2%) (Configurable)
Max. bypass current	40 A
Shift time (Bypass and inverter)	10ms
Output THD (Resistor load)	<3%
AC input parameters (On-grid)(Bypass to essential load & Charge the battery/ Feed to home load) GEN	
Max. (apparent) power: Bypass to essential load & Charge the battery Feed to home load	6000 W
Nominal input/output voltage	220V / 230 V / 240 V (Auto adjusted)
Nominal input/output frequency	50Hz / 60Hz (Auto adjusted)
Parallel Function	Max. 10 units in parallel
Independent Generator Port	Yes
Efficiency	
Max. efficiency	97.60%
Europe efficiency	97.60%
MPPT efficiency	99.90%
Max. battery to load efficiency	94.00%
Protection	
Protection	Battery over charge / discharge, Over temperature, Output over load, Output short circuit, Output over voltage, Battery low-voltage.
Monitoring&HMI	
Monitoring	WiFi / Bluetooth
HMI	Touch Screen + Indicators
Certifications & Standards Compliance	
Grid regulation	IEC 61727 / IEC 62116 / EN50549 / ABNT NBR / MEA, PEA (more available upon request)
Safety regulation	IEC / EN62109-112, IEC / EN 62477-1
EMC	IEC / EN61000-6-1/3
General Parameters	
Ingress protection	IP65
Operating temperature range	-25°C ~ 60°C
Net weight / Gross weight	25 kg / 27 kg
Product size / Packing size (W×D×H)	402×227×536 mm / 460×315×640 mm