

RESIDENTIAL STORAGE INVERTER

SQ 4kW / 6kW / 8kW
-LV-1P Ecco

Single Phase



Hybrid inverter with PV self-use function



UPS 10ms on / off grid switching



Opened front wiring



User friendly LCD display + WIFI / Bluetooth monitoring



Easy cleaning IP41 dust cover



Max. Efficiency up to 97.6%



Smart fan control, less noise

DATASHEET

Model	SQ 4kW-LV-1P Ecco	SQ 6kW-LV-1P Ecco	SQ 8kW-LV-1P Ecco
Battery Input Parameters			
Supported battery type	LiFePO ₄ or Lead-acid		
Battery input voltage range	40 ~ 60 V		
Max. charge / discharge current	60 A (Configurable) / 90 A (Configurable)	120 A (Configurable) / 130 A (Configurable)	150 A (Configurable) / 180 A (Configurable)
Battery capacity (Recommend)	70~1000Ah	100~1000Ah	100~1000Ah
Battery communication	CAN		
PV String Input Parameters			
Max. DC input power	4500 W	4000 × 2=8000 W	5000 × 2=10000 W
Max. DC input voltage	500 V		
MPPT voltage range	120 ~ 450 V		
Start-up voltage	150 V		
Max. input current	15 A // 1 MPPT channels	15 × 2 =30 A // 2 MPPT channels	23 × 2 =46 A // 2 MPPT channels
AC Output Parameters (Back-Up) (Feed to essential load)			
Max. output power	4000 W	6000 W	8000 W
Max. / Peak output apparent power	4000 VA / 8000 VA	6000 VA / 12000 VA	8000 VA / 16000 VA
Max. output current	18 A	27 A	36 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		42 A
Shift time (Bypass and inverter)	10ms		
Output THD (Resistor load)	<3%		
AC Input Parameters (Bypass to essential load & Charge the battery/ Feed to home load)			
Max. (apparent) power for bypass/ battery charging / home load feeding	4000 W	6000 W	8000 W
Nominal input / output voltage	220 V / 230 V / 240 V (Auto adjusted)		
Nominal input / output frequency	50Hz / 60Hz (Auto adjusted)		
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		
Monitoring&HMI			
Monitoring	WIFI / Bluetooth		
HMI	indicators+LCD		
Certifications & Standards Compliance			
Grid regulation	IEC 61727 / IEC 62116 / 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	IP20		
Operating temperature range	-25°C ~ 60°C		
Net weight / Gross weight	9.5 kg / 11 kg	13.7 kg / 16 kg	20.5 kg / 23 kg
Product size / Packing size (WxDxH)	307×133×430 mm / 423×230×518 mm	353×134×500 mm / 475×240×620 mm	450×119×539 mm / 580×230×660 mm