

RESIDENTIAL BATTERY

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

Single Phase 20.48kWh~61.44kWh



Features



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



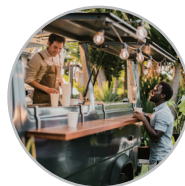
Scenarios



Houses



Off-grid Cabins



Small Stores



Small Offices



Small Farms

DATASHEET

Model	SQ 4kW-LV-1P Ecco	SQ 6kW-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)
Battery capacity (Recommend)	70~1000Ah	100~1000Ah
Battery communication	CAN	
PV String Input Parameters		
Max. DC input power	4800 W	4000 × 2=8000 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
AC Output Parameters (Back-Up) (Feed to essential load)		
Max. output power	4000 W	6000 W
Max. / Peak output apparent power	4000 VA / 8000 VA	6000 VA / 12000 VA
Max. output current	18 A	27 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 (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
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	
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 / 12.5 kg	13. 7 kg / 16.6 kg
Product size / Packing size (WxDxH)	307×133×430 mm / 423×230×518 mm	353×134×500 mm / 475×240×620 mm