

## Residential Storage Inverter

SQ 4kW/6kW-LV-1P Ecco | Single Phase



### Stronger Compatibility & Stability

- Compatible with Li-ion and Lead-acid batteries
- UPS 10ms switching time for seamless power continuity



### High Efficiency

- Max. efficiency up to 97.6%
- High battery input current up to 130A
- Zero export control to make full use of PV power



### Easy Installation

- Opened front panel for wiring
- Small in size, light in weight
- Free IP41 magnetic dust cover



### Smart Home

- User-friendly segment display interface and operation buttons
- Remote real-time monitoring via WiFi/Bluetooth

# Datasheet



Model	SQ 4kW-LV-1P Ecco	SQ 6kW-LV-1P Ecco
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## Battery Input Parameters

Supported battery type	Li-Ion or Lead-acid	Li-Ion or Lead-acid
Nominal battery voltage	48 V	48 V
Battery input voltage range	40~60 V	40~60 V
Max. charge voltage	≤60 V (Configurable)	≤60 V (Configurable)
Max. charge / discharge current	60 A (Configurable) / 80 A (Configurable)	100 A (Configurable) / 130 A (Configurable)
Battery capacity (Recommend)	70~1000 Ah	100~2000 Ah
Battery Communication	CAN	CAN

## PV String Input Parameters

Max. DC input power	4500 W	4000 x 2=8000 W
Max. DC input voltage	500 V	500 V
MPPT voltage range	120 ~ 450 V	120 ~ 450 V
Start-up voltage	150 V	150 V
Max. input current	15 A // 1 MPPT channels	15 x 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	26 A
Nominal output voltage	220 V / 230 V / 240 V (Configurable) 1 phase	220 V / 230 V / 240 V (Configurable) 1 phase
Nominal output frequency	50Hz / 60Hz (±0.2%) (Configurable)	50Hz / 60Hz (±0.2%) (Configurable)
Max. bypass current	40 A	40 A
Shift time (Bypass and inverter)	10ms	10ms
Output THD (Resistor load)	<3%	<3%

## AC Input Parameters (On-grid) (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)	220 V / 230 V / 240 V (Auto adjusted)
Nominal input/output frequency	50Hz / 60Hz (Auto adjusted)	50Hz / 60Hz (Auto adjusted)
Max. bypass current	40 A	40 A
Shift time (Bypass and inverter)	10ms	10ms

## Efficiency

Max. efficiency	97.60%	97.60%
Max. battery to load efficiency	94.00%	94.00%
Europe efficiency	97.00%	97.00%
MPPT efficiency	99.90%	99.90%

## Protection

Protection	Battery over charge / discharge, Over temperature, Output over load, Output short circuit, Output over voltage
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## Monitoring&HMI

Monitoring	WIFI / Bluetooth	WIFI / Bluetooth
HMI	3 inch Segment display interface	3 inch Segment display interface

## Certifications & Standards Compliance

Grid regulation	IEC 61727 / IEC 62116 / MEA, PEA (more available upon request)	
Safety regulation	IEC / EN62109-1/2, IEC 62477-1	IEC / EN62109-1/2, IEC 62477-1
EMC	IEC / EN61000-6-1/3	IEC / EN61000-6-1/3

## General Parameters

Ingress protection	IP20	IP20
Operating temperature range	-25°C~60°C	-25°C~60°C
Net weight / Gross weight	10 kg / 12 kg	13.7 kg / 16 kg
Product size / Packing size (WxDxH)	307×133×430 mm / 420×220×520 mm	353×134×500 mm / 485×243×620 mm