RESIDENTIAL STORAGE INVERTER

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

Single-Phase | 4 kW / 6 kW



Features

- Hybrid Inverter With PV Self-Use Function
- Opened Front Wiring
- Easy Cleaning IP41 Dust Cover
- Smart Fan Control, Less Noise
- UPS 10 ms On / Off-Grid Switching
- User-Friendly LCD Display + Wi-Fi / Bluetooth Monitoring
- Max. Efficiency Up to 97.6 %

Scenarios


Houses


Off-grid Cabins


Small Stores


Small Offices


Small Farms

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DATASHEET

Model	SQ 4 kW-LV-1P Ecco	SQ 6 kW-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)
Recommended battery capacity	70 ~ 1000 Ah	100 ~ 1000 Ah
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 channel	15 A × 2 = 30 A // 2 MPPT channels
AC Output Parameters (Back-Up) (Feed to essential load)		
Max. output power	4000 W	6000 W
Maximum/peak apparent output 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	50 Hz / 60 Hz (±0.2 %) (Configurable)	
Max. bypass current	40 A	
Shift time (Bypass and inverter)	10 ms	
Output THD (resistive 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	50 Hz / 60 Hz (Auto adjusted)	
Efficiency		
Max. efficiency	97.60 %	
European efficiency	97.60 %	
MPPT efficiency	99.90 %	
Max. battery to load efficiency	94.00 %	
Protection		
Protection	Battery overcharge / discharge, Over temperature, Output overload, Output short circuit, Output overvoltage	
Monitoring & HMI		
Monitoring	Wi-Fi / 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 to 60 °C	
Net weight / Gross weight	9.5 kg / 12.5 kg	13.7 kg / 16.6 kg
Product size / Packing size (W × D × H)	307 × 133 × 430 mm / 423 × 230 × 518 mm	353 × 134 × 500 mm / 475 × 240 × 620 mm