RESIDENTIAL BATTERY

ECO 2

Low Voltage 2.56 kWh

UN 38.3



Features

- One-Touch Parallel Scaling
- Remote App Control & Updates
- Mainstream Inverter Compatibility
- Smart BMS & Precise Detection and Protection
- Auto Aerosol Fire Extinguishing Ultimate Security, Strengthen Defenses

Scenarios


Houses


Off-grid Cabins


Small Stores


Small Offices


Small Farms

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DATASHEET

Model	ECO 2
Performance	
Cell technology	LFP ($LiFePO_4$)
Battery usable energy [1]	2.56 kWh
Nominal capacity	100 Ah
Nominal voltage	25.6 V
Operating voltage	22.4 ~ 28.08 V
Max. charge and discharge current [2]	100 A
Recommended Depth of Discharge	90 %
Cycle Life [3]	6,000 cycles
Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	CAN / RS485 / RS232 / Wi-Fi
General Specification	
Dimension (W × D × H)	360 × 160 × 473 mm
	14.17 × 6.29 × 18.62 inch
Weight	25 kg (55.1 lb)
Installation	Floor-standing or wall-mounted
Operating temperature [4]	Charge: 0 °C to 50 °C (32 to 122 °F) Discharge: -15 °C to 50 °C (5 to 122 °F)
Environmental humidity	≤ 95 % RH (non-condensing)
Ingress protection rating	IP20
Warranty Period [5]	5 years / 10 years (Optional)
Scalability	Max. 15 batteries in parallel
Application	On-grid / On-grid + Backup / Off-Grid
Compatible inverters	Refer to compatible inverter list (Compatible with major PCS brands)
Standard Compliance	
Compliance	UN 38.3 (More available upon request)

[1] Test conditions: 100 % depth of discharge (DOD), 0.2C rate charge & discharge at 25 °C.
[2] Factory-configurable 0.5 C or 1 C charge/discharge rates are available.
[3] Cycle life test conditions: 25 ± 2 °C, 0.5P / 0.5P, 70 % SOH.
[4] Charge / discharge derating occurs when the temperature is below 0 °C or above 45 °C.
[5] Please refer to the Warranty Letter for applicable conditions.

SYSTEM DIAGRAM

