



W16-lite

Residential LFP Battery Series



Version: V1.0

1

Battery automatically assigns addresses. No dip switch programming required.

2

Each battery can be monitored with the app or optional software.

Product Advantages

Longer Life and Safer

- R E P T A + grade lithium iron phosphate
- Battery management system with multi-level protection

Flexible and Expandable

- Up to 16 units in parallel, the system's energy capacity is up to 229kWh

Higher Energy Density

- The battery takes up less space and has an energy density of up to 166Wh per kilogram

Easy to Install and Use

- Applications Residential, Commercial, Industrial, Off-grid, grid tie and self-consumption. Compatible with all 48V inverters that support LFP

Compliance

- UN38.3, MSDS, CE-ROHS, IEC-61000

Dimensions



Product Name

W16-lite

Electrical Characteristics

Nominal Voltage	51.2V
Nominal Capacity	280Ah
Energy	14,336Wh
Battery Chemistry	Lithium Iron Phosphate (LFP)
Cycle Life	6,000 cycles @ 77°F (25°C), 0.5C/0.5C
Operating Voltage	46.4~57.6V
Communication Interfaces	CAN/RS485/RS232
Scalable	Up to 16 units
Expansion function	Aerosol heating (optional)/heating function (optional)/active equalization (optional)

Charge & Discharge

Nominal Charge and Discharge	140A
Maximum Charge and Discharge	200A
Peak Discharge	250A/10min

Environmental

Environment	Indoor/outdoor
Charging Temperature	0°C to 55°C
Discharging Temperature	0°C to 60°C
Storage Temperature	-10°C to 45°C
Altitude	≤3,000 m (9,843 ft)
Cooling Method	Natural Convection
IP Rating	IP65

Mechanical

Dimension(L*W*D)	800*500*227mm
Weight	128.9kg
Installation	Wall mount or floor

