

Earth X2/X3



Low Voltage Battery Modules

51.2V/48V (100 Ah)



EARTH X2 **5,000Wh**
51.2V 1P16S

EARTH X3 **4,800Wh**
48V 1P15S

Industrial / Telecom Dedicated | Solar Storage & Charging Applications



Rack-mounted Energy Storage



Residential / Commercial Solar Storage



Mobile Charging and Energy Storage

Energy Independence

Residential and commercial storage; supports TOU optimization and backup power; integrates with solar PV to increase self-consumption.

Efficiency Upgrade

Peak shaving to reduce electricity costs; supports microgrid deployment; improves energy utilization efficiency.

Emergency Support

Off-grid power for outdoor or construction sites; mobile EV charging; reliable power supply for disaster response.

Features

- LiFePO4 cells with high safety and long cycle life
- Standard 3U rack design enables flexible expansion
- 100A max. continuous discharge current, designed for high-power applications
- Multiple communication interfaces compatible with mainstream inverters

International Safety



IEC 62619

Transportation Certification



UN 38.3

Taiwan Safety Standard



CNS 62619



Product Specifications

Model	Earth X2	Earth X3
Applications	Residential and small commercial energy storage, compatible with hybrid inverters	Power backup for telecom base stations
Electrical Specifications		
Cell Chemistry	LiFePO ₄ (Prismatic)	
Nominal Voltage	51.2V	48V
Nominal Capacity	100Ah	
Nominal Energy	5,000Wh	4,800Wh
Battery Configuration	1P16S	1P15S
Cycle Life	≥5,000 (@80%, DoD, 25°C)	
Charge Voltage	58.4V	54.75V
Charge Current	50A	100A
Max. Continuous Charge Current	100A	
Discharge Current	50A	100A
Max. Discharge Current	100A	
Max. Continuous Discharge Current	100A	
Discharge Cut-off Voltage	40.0V	37.5V
Max. Parallel Units	Up to 16 Units	Up to 64 Units
General Specifications		
Dimension (W*D*H)	435 x 500 x 130mm	435 x 520 x 130mm
Weight	45kg	42kg
Communication Interface	RS232/RS485/CAN (Standard) Wi-Fi/BT (Customized)	RS232/RS485/CAN/SNMP (Standard)
Operating Temperature	Charge: 0°C~45°C / Discharge: -20°C~55°C	
Operating Humidity	5%~ 95% RH (No condensation)	
Storage Temperature	45°C (within 1 month) / 25°C (within 6 months)	
BMS Protection Mechanism	Over-current / Over-temperature / Under-temperature / Over-voltage / Under-voltage Protection & Alarms	
Protection Rating	IP20	
Communication Protocol	ModBus RTU	
Compliance Standards		
Cell	IEC 62619/UN 38.3	
Battery Module	IEC 62619/UN 38.3 CNS62619/CNS 63056 (Expected by the end of 2025)	IEC 62619/UN 38.3/CNS62619