EKOTEK ENERGY™

OVER 24.5 MWh Lifetime Production

TRUST EKOTEK'S HIGH CAPACITY BATTERY WITH A >15-YEAR DESIGN LIFE AND 8000+ AT 80% DOD

8 YEARS WARRANTY Power | Product | Service

UL LISTED

5 kWh+

8 Year Warranty

LiFePO₄

ORIGINAL BYD Cells

5 Kwh+ POWER LiFePO₄

Powered by BYD Cells

PRO CUBE 5 kWh+
Lithium Ion LiFePO₄ Battery

ET - 314-512/100

Features:

- Packed with high performance LFP single cell, long life, safety and wide temperature range
- High energy density, small size, light weight, no pollution
- Packing with single cell container, fire retardant wire and laser welding, stable and safe
- Built-in BMS, with battery voltage, current, temperature and health management
- LED indicate the battery SOC and operating status
- LCD Screen display the battery voltage, current, temp., SOC detail information
- Built-in Fire Arrestors
- Loose Connection Detection
- Auto Detection (Automatically Detects Inverter)
- Active Cell Balancing
- Set different communication protocols through 5 inch LCD touch screen
- Dust/Water/Weather protection for all cable connectors with plastic covers
- Built in WiFi and Bluetooth Modules
- Support communication with solar inverter by CAN 2.0
- Update firmware by RS485 port
- Support 100 units in parallel and communicate by RS485/CAN 2.0
- More than 15 years design life
- Stable performance, maintenance-free

LCD Touch SCREEN

48V SYSTEM VOLTAGE

100A DISCHARGE

AUTO DETECT INVERTER TYPE

WIRELESS CONNECTIVITY THROUGH APP

BUILT-IN FIRE ARRESTORS

LOOSE CONNECTION DETECTION

ACTIVE CELL BALANCING

CONNECT UPTO 100 BATTERIES IN PARALLEL

x100

www.ekotekenergy.com

EKOTEK ENERGY

PRO CUBE 5 kWh+

BATTERY SPECS

Battery Chemistry		LiFePO$_4$
Voltage	Nominal @ 25 °C ~ 0.2 °C	51.2 V
Capacity	Nominal @ 25 °C ~ 0.2 °C	100 Ah
Energy (Wh)		5120 Wh
Module Weight ±0.5 kg		49 kg
Dimensions (W × D × H) mm, ±2 mm		640 × 420 × 157
Cell Serial Number (pcs)		16, Active Cell Balancing

OPERATING PARAMETERS

Voltage Range	44.8 V ~ 56.8 V
Charging Voltage	56 ± 0.8 V
Charging Current	100 A Maximum
Discharging Voltage	44.8 V
Discharging Current	100 A
Peak Discharge (25°C)	300 A, 3 S
Recommended Depth of Discharge	80.0%
Display	5 inch touchscreen LCD display, set protocol on LCD; 4 LEDs for SOC 1 LED for Run status 1 LED for ALM

BATTERY MANAGEMENT SYSTEM

BMS	Built-in BMS	Yes
Communication Port (can be customized)		CAN 2.0, RS458, WiFi, Bluetooth
Scalability (Max. In 1 battery group)		100 units in parallel

GENERAL

IP Rating of Enclosure		IP21
Design Life	Service Life @ 25 °C	> 15 Years
Cycle Life	Service Life @ 25 °C	> 6000 Times
Certifications		MSDS, UL1973, IEC62619, CE, UN38.3