

UE-T Series

UE-48LI150T-3U

Lithium Ion Battery

48V 150Ah

DESCRIPTION

Lithium iron phosphate battery module designed for energy storage systems and telecom backup power supply applications.

This integrated battery module with intelligent BMS inside, has great advantages in safety, cycle life, energy density, temperature range and environmental protection.

This product specification describes the type, size, structure, electrochemical performance, service life and characteristics of the BMS.



BENEFITS

- The battery module consists of individual LFP cells, cable, BMS and container.
- Equipped with a single LFP cell for high performance, long life, safety and wide temperature range.
- High energy density, small size, light weight and no contamination.
- Packing with single cell container, fireproof cable and laser welding, stable and safe.
- Built-in BMS, with battery voltage, current, temperature and health management.
- LED indicates battery SOC and operating status.
- Flexible customization of dimensions.
- More than 15 years service life.
- Stable performance, no maintenance.

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MODEL PARAMETERS

Nominal Voltage	48V
Rated Capacity(0,2C, @25°C)	150Ah
Nominal Energy	7200Wh
Cell and Module	Cell LiFePO4
Output Voltage Range	42.0V~53.5V
Load Voltage	52.5V~53.5V, CC-CV (Recommended 52.5V)
Shear stress	42.0V
Max. Constant Current	100A
Recommended Load Current	<150A, best @ 45A
Recommended Load Type	CC-CV up to current <0.02C
Communication	RS485
Internal Resistance	<10mΩ
Capacity Efficiency	≥99.5%
Cabinet Material	Metal
Dimensions La*W*H (mm)and Terminal	442*560*133, M6
Weight (Kg)	60.0±0.5 kg

BMS INTEGRADO

Overload Protection	Module>57.0V or Cell>3.8V
Overload Protection	Module<42.0V or Cell<2.0V
Overcurrent Protection	Charging: >152A, 10S delay; >170A, 3S delay; Discharge: >152A, 10S delay; >170A, 3S delay; Short-circuit protection: Integrated
Cell Balancing	Passive, 150mA
Overtemperature protection	Charging: <0°C or >70°C Unloading: <-20°C or >75°C

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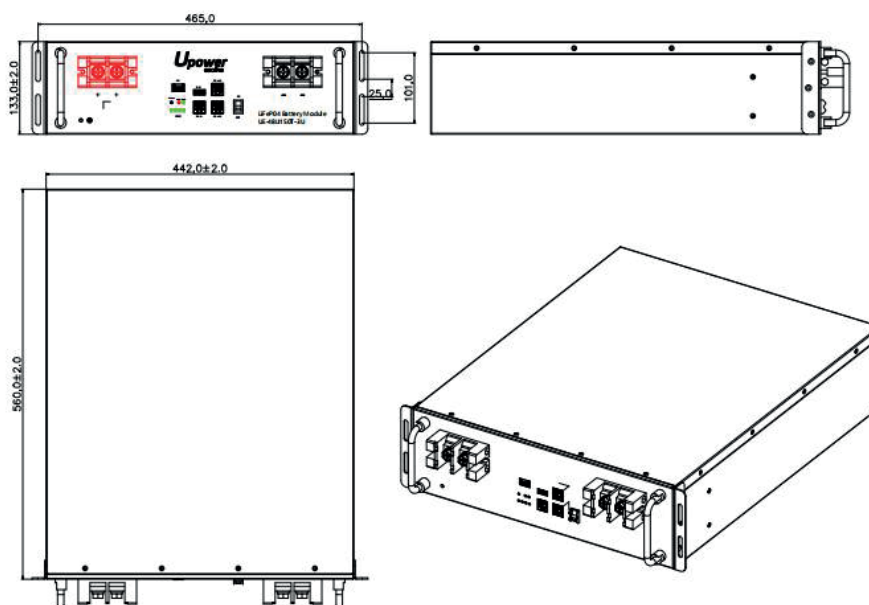
ENVIRONMENTAL CONDITIONS

Humidity	5%~95% relative humidity
Load temperature	0°C~45°C
Discharge Temperature	-20°C~+65°C
Storage Temperature	-20°C~55°C

LIFETIME

Life Cycles	80%DOD>6000 times, @0.5C, 25°C
Lifespan	>15 years

DIMENSIONS



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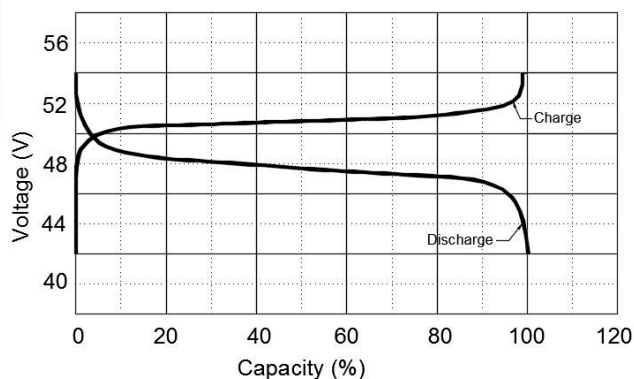
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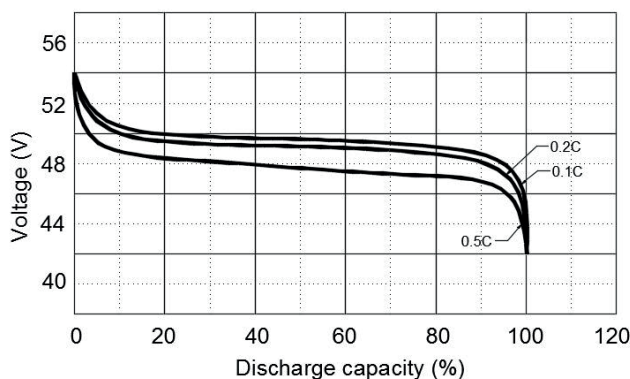
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YIELD CURVE

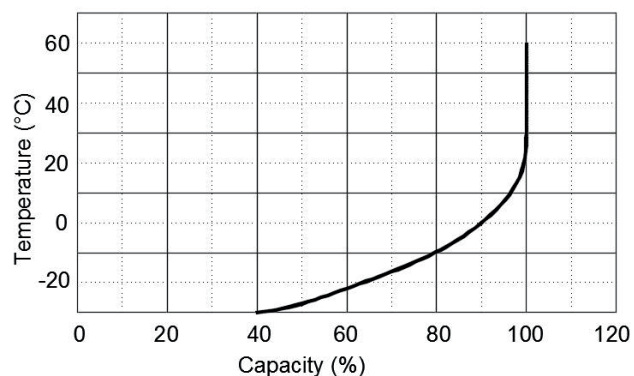
Charge & Discharge curve with 0.5C @ 25°C



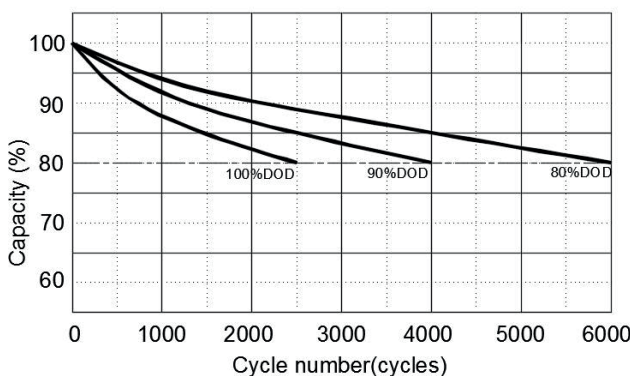
Discharge performance with different rate @ 25°C



Discharge capacity with different temperature @ 0.5C



Cycle life with DOD @ 0.5C, 25°C



Self-discharge @ different temperature

