UE-T Series

UE-48LI150T

Telecommunication Battery Series
48V 150Ah

SECURITY

- Long life LiFePO4 prismatic cells, suitable for energy storage applications.
- Low voltage system, safety for application.
- Battery certification: UN38.3, MSDS, CE
- Life>6000 cycles.

DESIGN

- Standard 19" rack design, flexible and easy to install
- -20~+55ºC wide temperature range.
- Parallel support for more power or more inverter capacity.
- SOC, RUN, ALARM, and BMS software display for PC.
- OVP, LVP, OCP, OTP, LTP, short circuit protection.
- RS485, CAN communication port.
- Independent protection for charging and discharging.
- High reliability: Panasonic AFE microchip and ST MCU
- Optional components: Bluetooth module, Heater.
- Optional: standard screw connectors or Anphenol plug-and-play connectors.

COMPATIBLE WITH INVERTER BRANDS

Communication compatible with the main inverter.

Master Battery, S.L.
Paseo de extremadura, 39, 28935 Móstoles, Madrid, España
Tel. +34 918 021 649
info@masterbattery.es / www.masterbattery.es

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Upower

MODEL PARAMETERS

Nominal voltage	48V
Nominal Capacity	150Ah
Total Energy	7200Wh
Dimensions	442*520*175
Weight	65Kg
Max. Charging current	100A
Maximum Discharge Current	100A
Pulse discharge current	110A @ 10min 120A @ 10s
Load Voltage	51.8V~54.7V
End-of-Discharge Voltage	42V (Backup Application) / 45V (Cycle Application)
Operating Humidity	0-95% RH (non-condensing)
Operating Temperature	Charging: 0~+55°C; Discharging: -20 ~ +55°C
Life Cycles	>6000
Lifespan	10 Años
Communication Interface	RS485*2, CAN*1, Dry Contact*2
Protection	Overvoltage, Undervoltage, Overcurrent, Over-temperature, Low temperature, Short circuit
Parallel Support	Sí, Max. 15 Sets
Serial Support	No Compatible
IP rating	IP20
Certification	UN38.3, MSDS, CE

Nota:

1.- Normally the operating temperature range of Li-ion battery is: discharge-20~+55ºC, charge 0~+55ºC, if the optional heater is stopped, it will start working automatically once the cell temperature is below 5ºC and the heater can help to increase the cell temperature 4~8ºC/hour. With optional heater: Charging / Discharging: ~30 ~ +55ºC.

2.- 4000 cycles at 25ºC, 0.5C/0.5C, 100%DOD and 80% EOL. 6000 cycles at 25ºC, 0.5C/0.5C, 80%DOD and 80% EOL.

3.- For parallel power cable connection, please refer to the user's manual.

4.- Some models are UL, IEC certification.

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MASTER BATTERY

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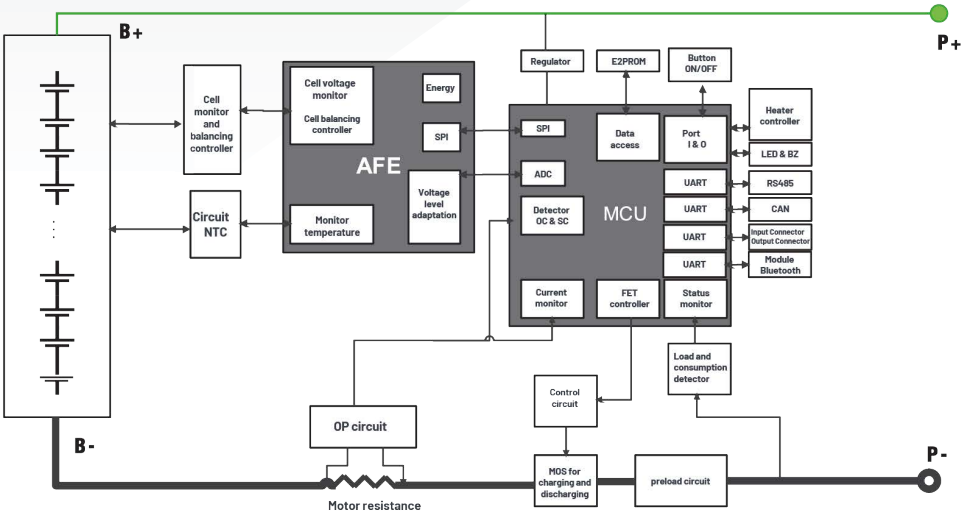
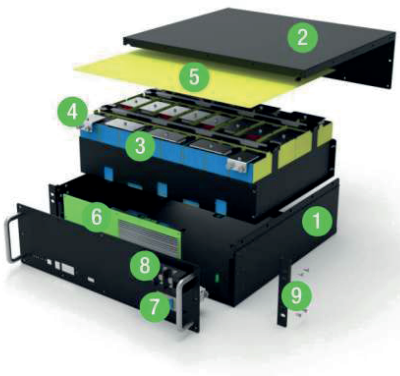
Upower

SYSTEM TOPOLOGY



INTERNAL STRUCTURE DIAGRAM



① Battery Box: SPCC with black paint.
② Battery Cover: SPCC with black paint.
③ LFP cells(15S for 48V, 16S for 51.2).
④ Aluminum Bar - A1060.
⑤ Epoxy plate.
⑥ BMS
⑦ MCB.
⑧ Power Terminal.
⑨ Brackets.

*The connectors used in the image do not have to match the real ones, as they are selectable.

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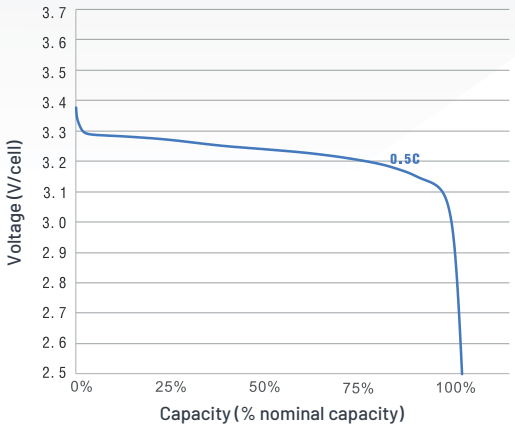
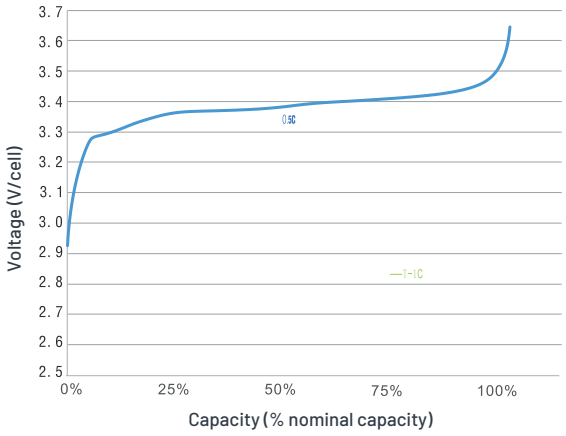
YIELD CURVE

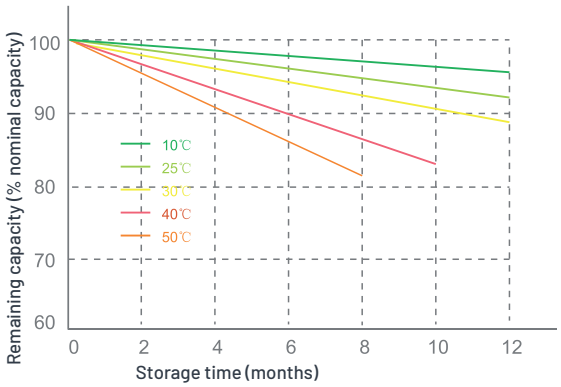
Different Discharge Rate and Temperature



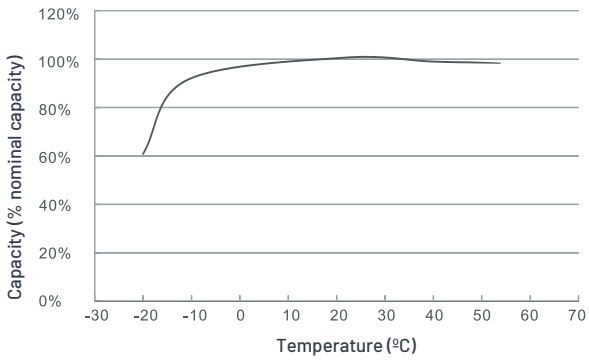
Charge Rate and Temperature Characteristics



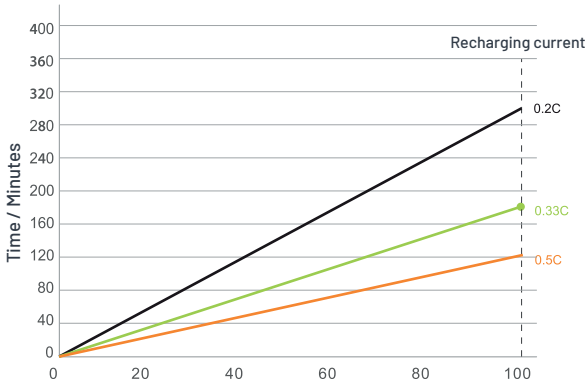
Self-discharge curve at different temperatures



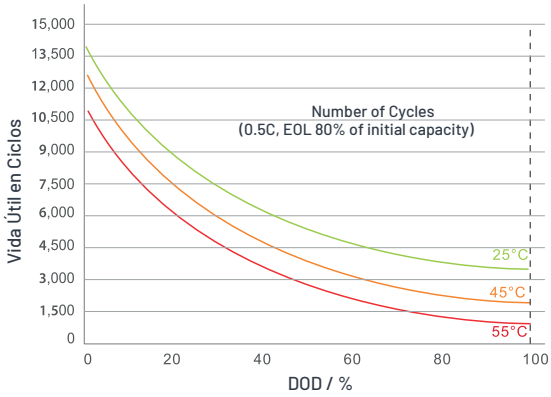
Capacity at Different Temperatures



Typical Recharge Time



Typical service life



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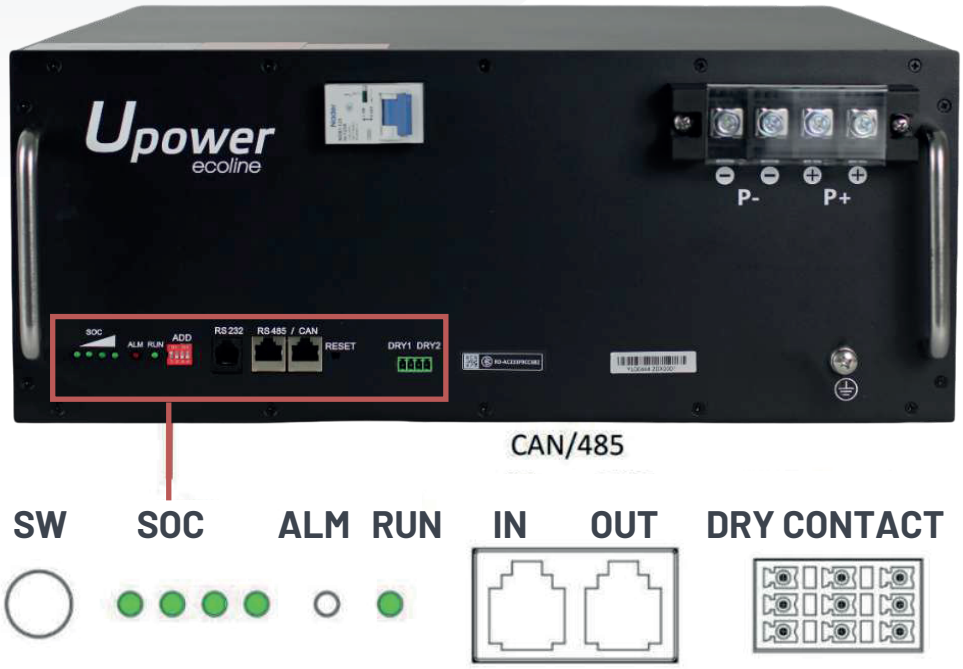
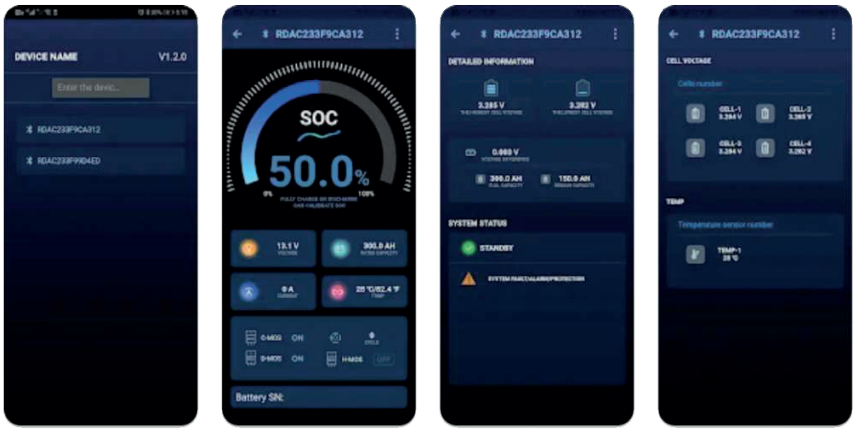
FRONT PANEL



OPTIONAL PARTS: BLUETOOTH MODULE AND APPLICATION



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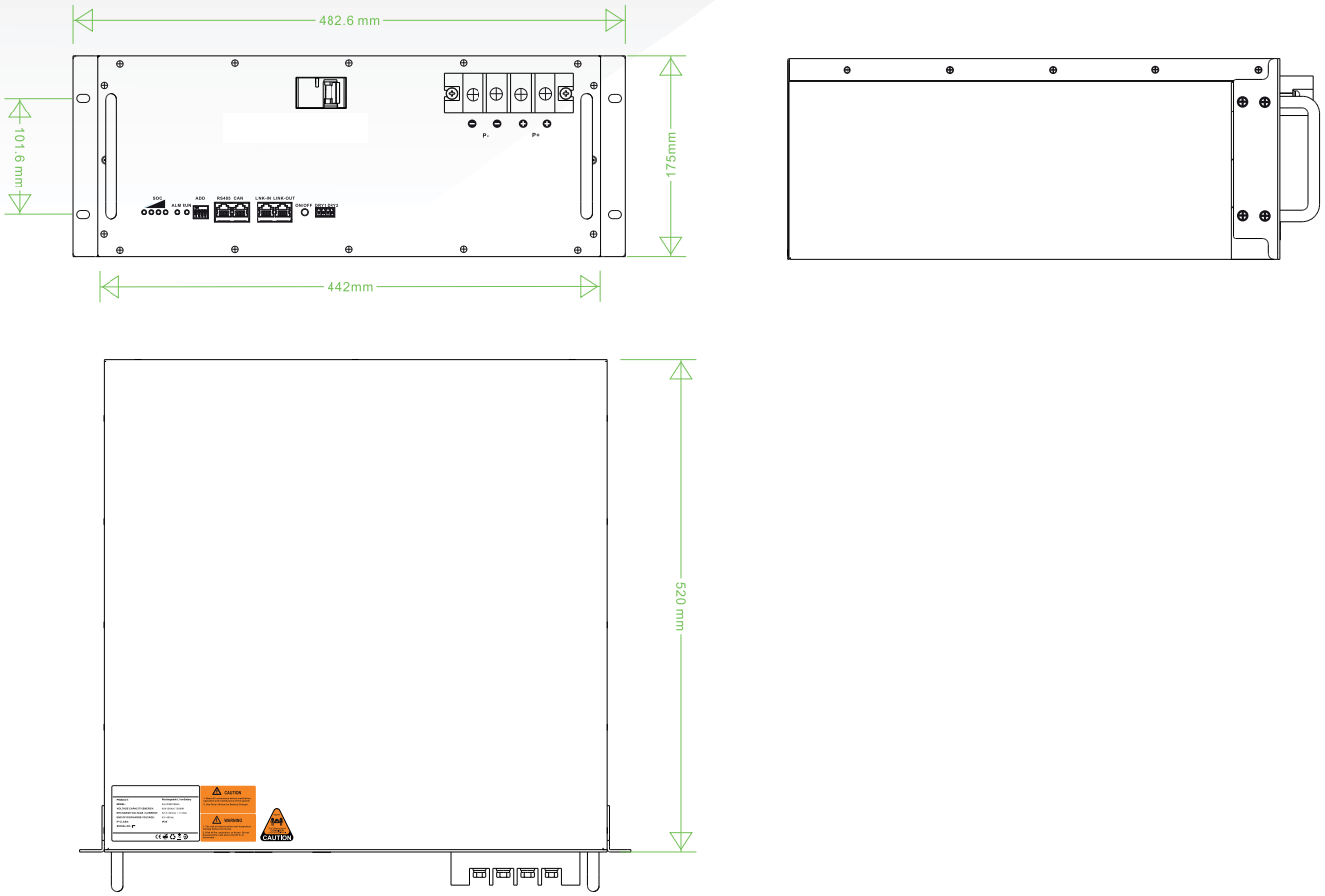
DIMENSIONS



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