

UE-T Series

UE-48LI50T

48V 50Ah Battery Series for telecommunications

SECURITY

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



DESIGN

- Standard 19" rack design, flexible and easy installation.
- -20~+55°C wide temperature range.
- Parallel support for more power or more capacity from inverter.
- Display SOC, RUN, ALARM and BMS software 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 type connectors or plug and play Anphenol type connectors.

COMPATIBLE WITH INVERTER BRANDS

Communication compatible with the main inverter.

UE-T Series

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48V 50Ah Telecommunication Battery Series

MODEL PARAMETERS

Nominal Voltage	48V
Nominal Capacity	50Ah
Total Energy	2400Wh
Dimensions (W*DxDxH, mm)	442*400*130.5
Weight	26.5Kg
Max. Load Current	50A
Max. Discharge Current	50A
Pulse Discharge Current	55A @ 10min 60A @ 10s
Load Voltage	51.8V~54.7V
End-of-discharge voltage	42V (Backup Application) / 45V (Cycling Application)
Operating Humidity	0~95% RH (Non-condensing)
Operating Temperature	Load: 0~+55°C; Discharge: -20 ~ +55°C
Life Cycles	>6000
Lifespan	10 Years
Communication Interface	RS485*2, CAN*1, Dry Contact*2
Protection	Overvoltage, Undervoltage, Overcurrent, Over-temperature, Low temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Serial Support	No Compatible
IP Classification	IP20
Certification	UN38.3, MSDS, CE

Nota:

- 1.- Normally the operating temperature range of Li-ion battery is: discharge -20~+55°C, charge 0~+55°C, if the optional heater is stopped, it will start working automatically once the cell temperature is below 5°C, and the heater can help to increase the cell temperature 4~8°C/hour. With optional heater: Charging / Discharging: -30 ~ +55°C.
- 2.- 4000 cycles at 25°C, 0.5C/0.5C, 100%DOD and 80% EOL. 6000 cycles at 25°C, 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.

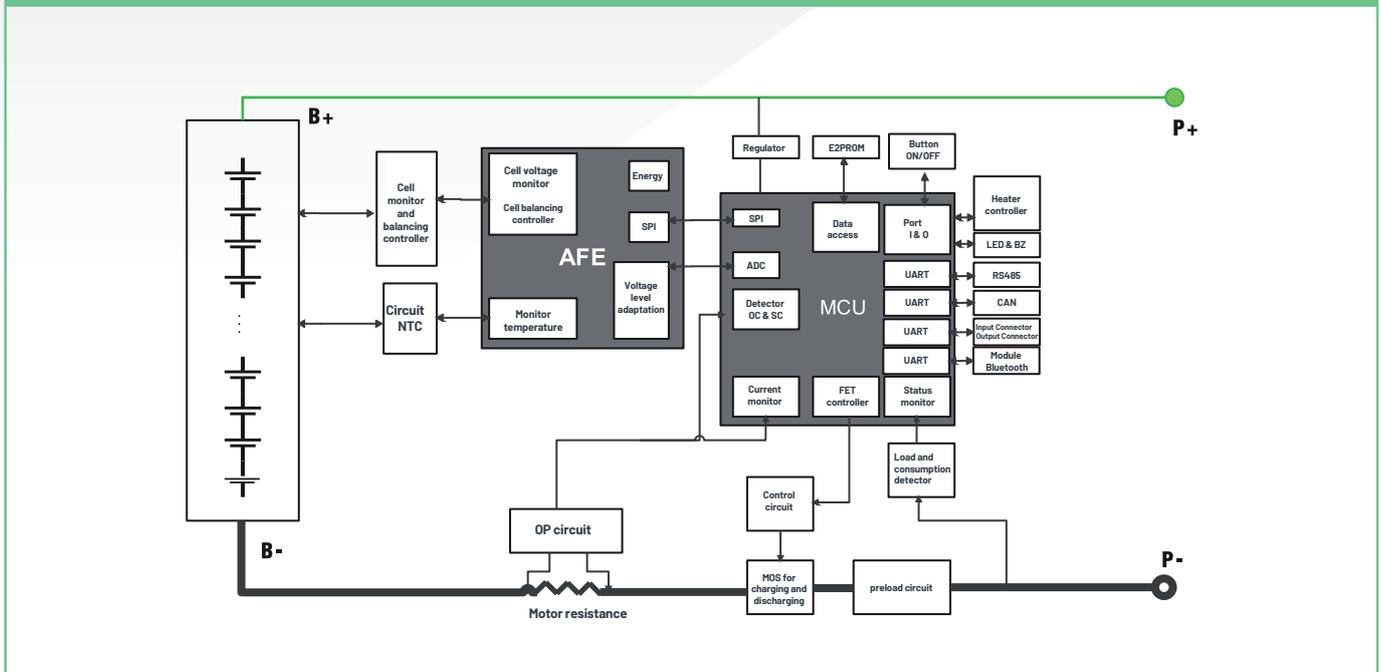
UE-T Series

Upower

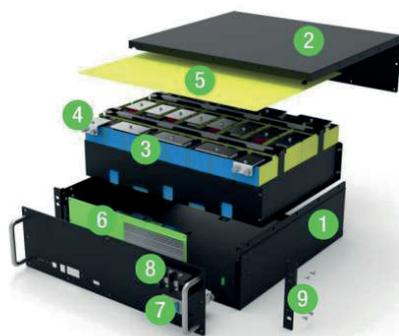
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48V 50Ah Telecommunication
Battery Series

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 51.2V).
- ④ Aluminum Bar - A1060.
- ⑤ Epoxy plate.
- ⑥ BMS - Ritar (Version B0).
- 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.

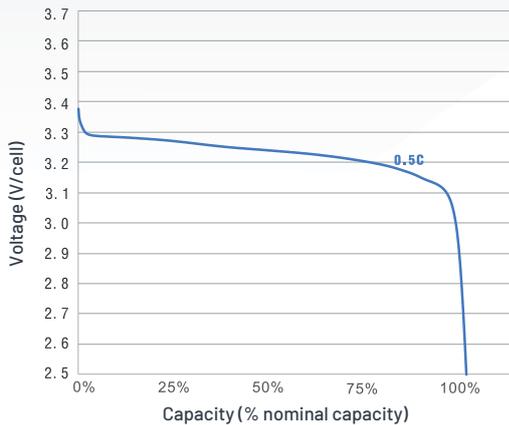
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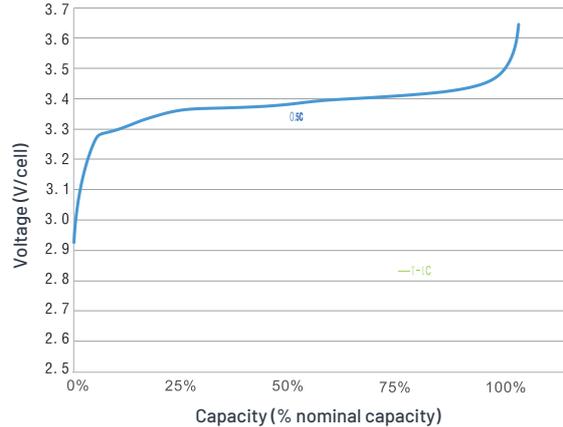
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YIELD CURVE

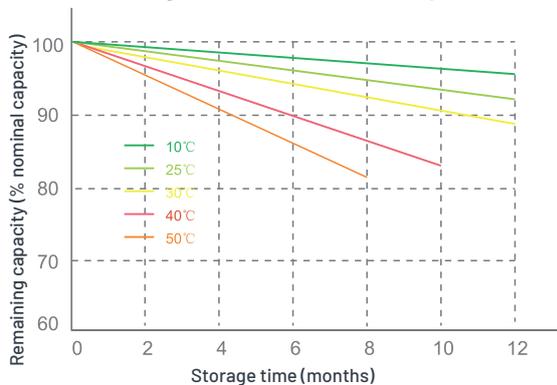
Different Discharge Rate and Temperature



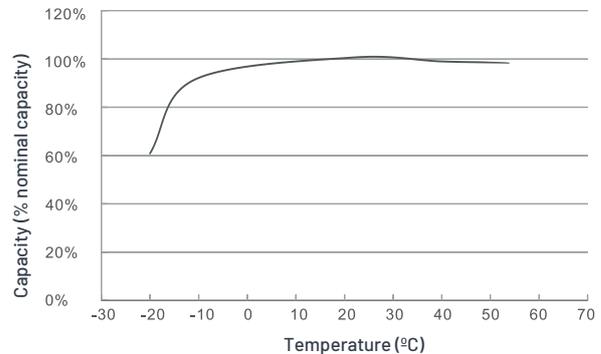
Charge Rate and Temperature Characteristics



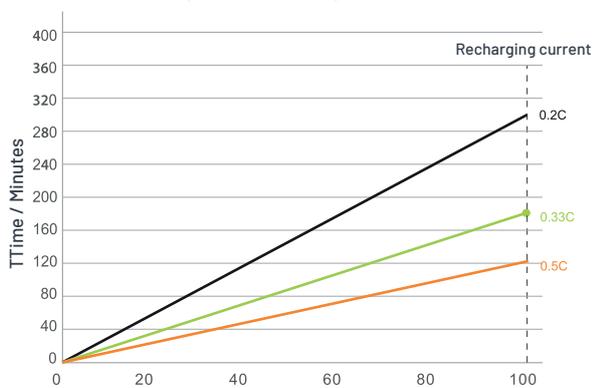
Self-discharge curve at different temperatures



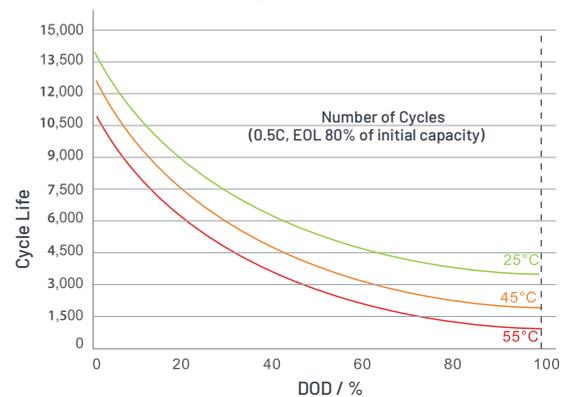
Capacity at Different Temperatures



Typical Recharge Time



Typical service life



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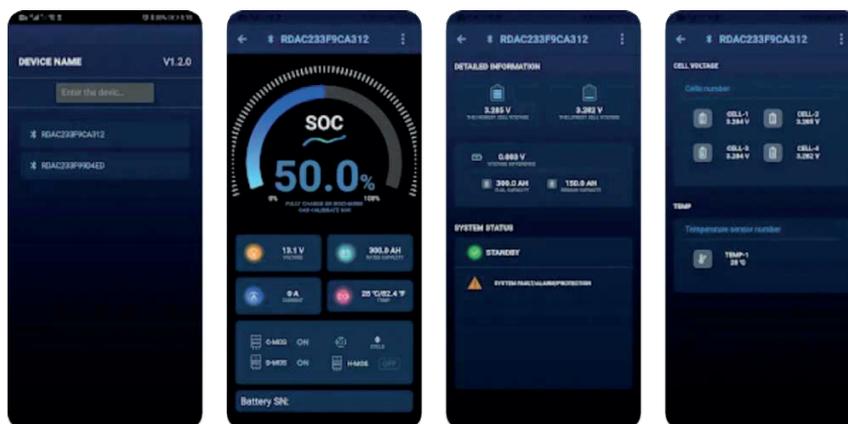
FRONT PANEL



CAN/485



OPTIONAL PARTS: BLUETOOTH MODULE AND APPLICATION



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DIMENSIONS

