

UE-T Series

48L150

TELECOMMUNICATIONS



SAFETY

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

DESIGN

- + Standard 19" rack design, flexible and easy installation.
- + -20~+55°C widely temperature range.
- + Parallel support for more energy or more capacity inverter.
- + SOC, RUN, ALARM display and BMS PC software.
- + OVP, LVP, OCP, OTP, LTP, Short circuit protection.
- + RS485, CAN communication port.
- + Independent protection for charge and discharge.
- + High reliability: AFE microchip is Panasonic & MCU is ST.
- + Optional part: Bluetooth module, Heater.
- + Optional: standard screw type connectors or plug and play Anphenol type connectors.

Compatible with inverter brands

Communication compatible with major inverter.

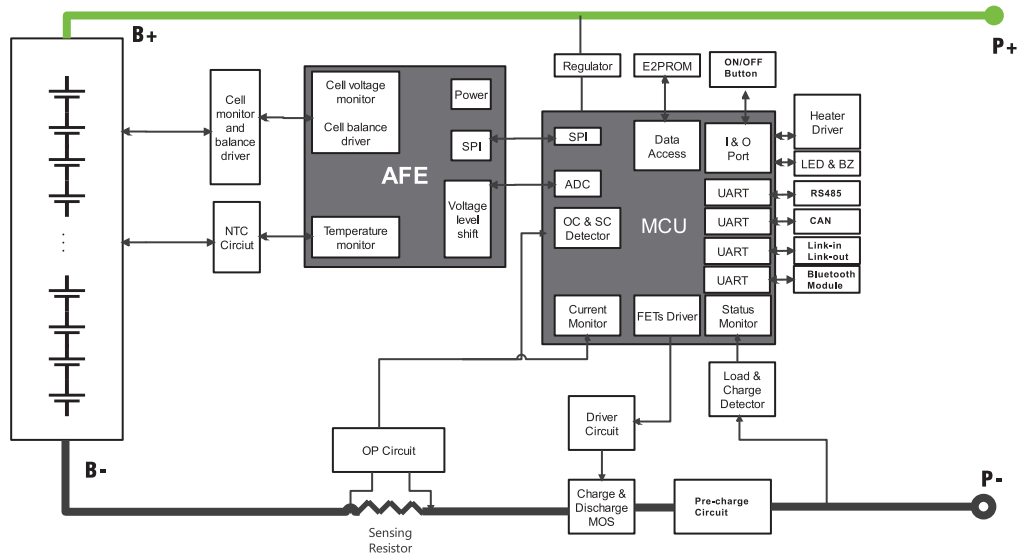
48V Series

50Ah



RESS BATTERY-48V

SYSTEM TOPOLOGY



INTERNAL STRUCTURE DIAGRAM



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

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

RESS BATTERY-48V**PARAMETERS-48V**

Model	UE-48LI50T
Nominal Voltage [V]	48
Nominal Capacity [Ah]	50
Total Energy [Wh]	2400
Dimension (W*D*H, mm)	442*400*130.5
Weight [Kg]	26.5
Max. Charging Current [A]	50
Max. Discharging Current [A]	50
Pulse Discharge Current	55A @10min 60A @10s
Charging Voltage [V]	51.8~54.7
End of Discharge Voltage [V]	42 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range ⁽¹⁾	Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C
Cycle Life ⁽²⁾	>6000
Designed Calendar Life	10 Years
Communication interface	RS485*2, CAN*1, Dry contact *2
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support ⁽³⁾	Yes, Max. 15 Sets
Series Support	Not support
IP Class	IP20
Certification ⁽⁴⁾	UN38.3, MSDS, CE

Note:

(1) Normally the Li-ion battery operation temperature range is : discharge -20~+55°C, charge 0~+55°C, If the optional heater is stalled, it will automatic start to work once the cell temperature is below 5°C and the heater can help to increase cell temperature 4~8°C/hour. With Optional Heater: Charge / Discharge: -30 ~ +55°C

(2) 4000cycles at 25°C, 0.5C/0.5C, 100%DOD and 80% EOL
6000cycles at 25°C, 0.5C/0.5C, 80%DOD and 80% EOL

(3) For parallel power cable connection, refer to user manual.

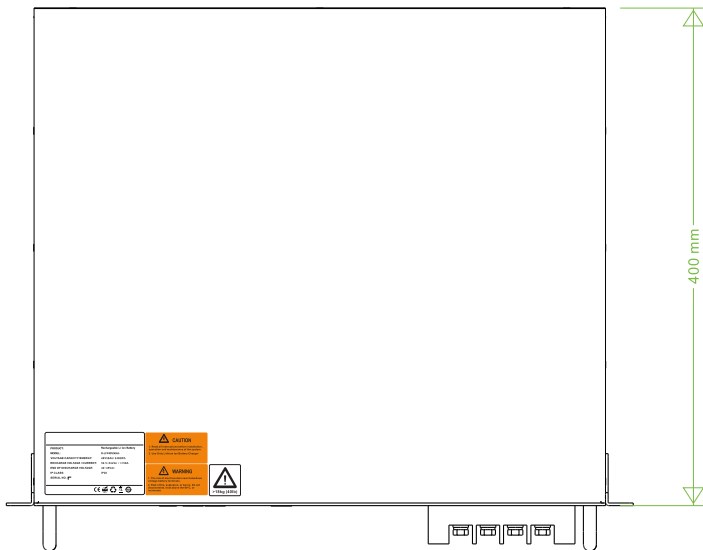
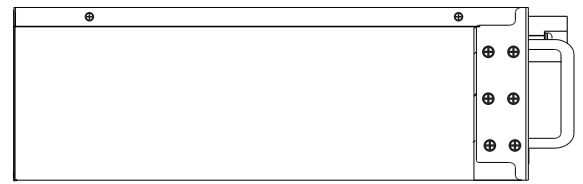
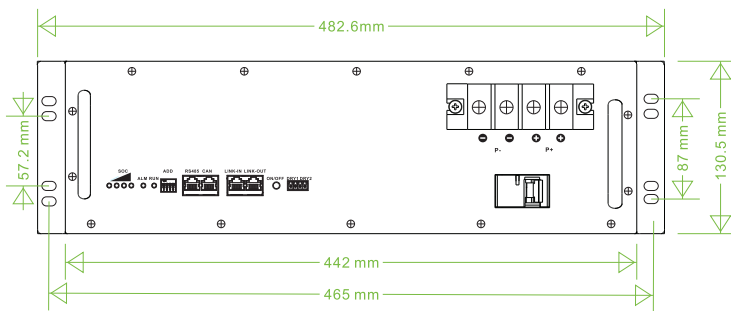
(4) some models cell have UL , IEC certification,

The datasheet is subject to change without prior notification



RESS BATTERY-48V

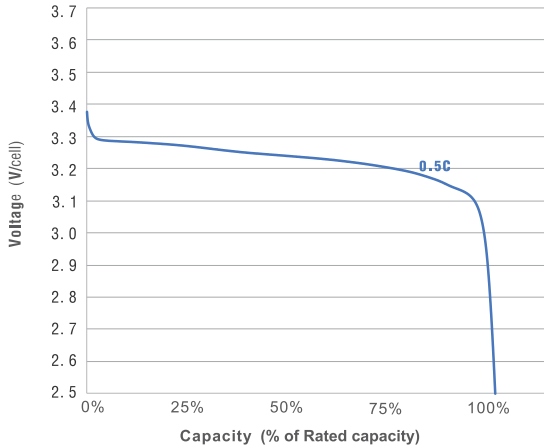
Dimension



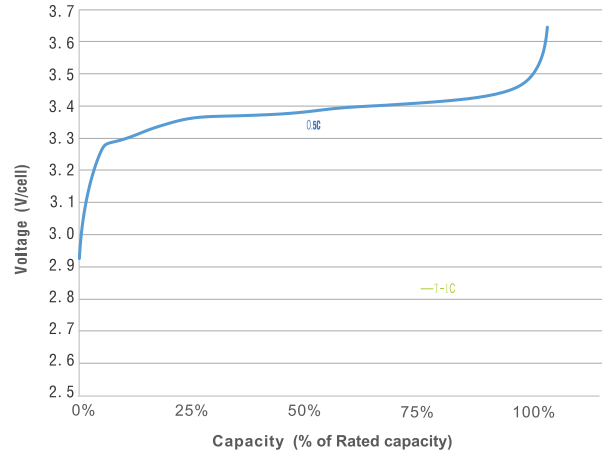
RESS BATTERY-48V

Performance Curve

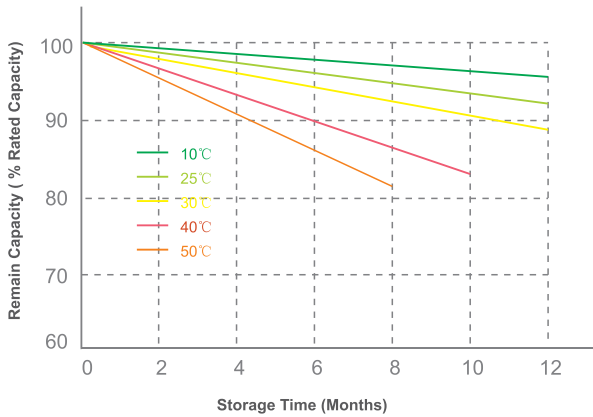
Dierent Discharge Rate and Temperature Characteristic



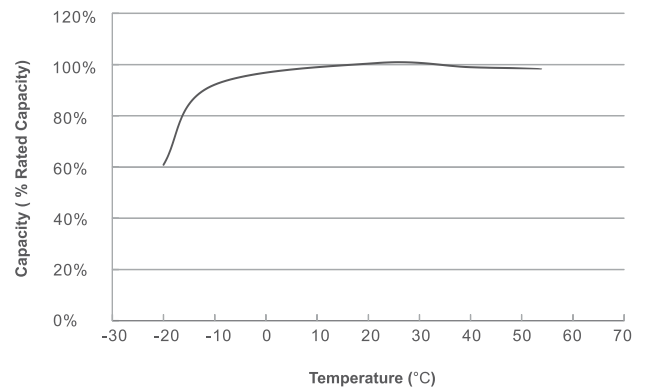
Dierent Charge Rate and Temperature Characteristic



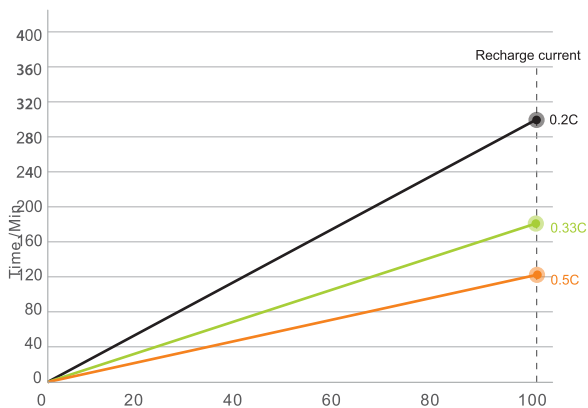
Different Temperature Self Discharge Curve



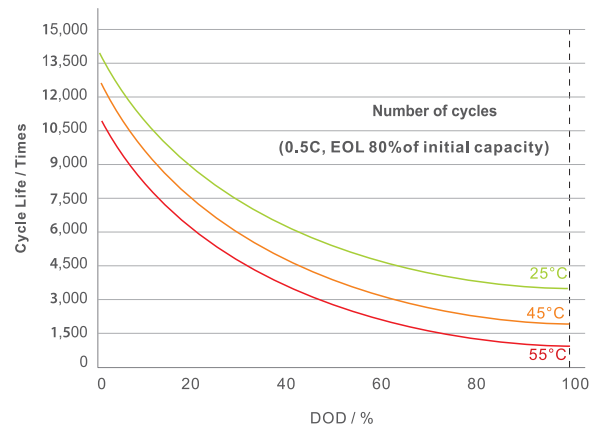
Capacity with Different Temperature



Typical Recharge Time

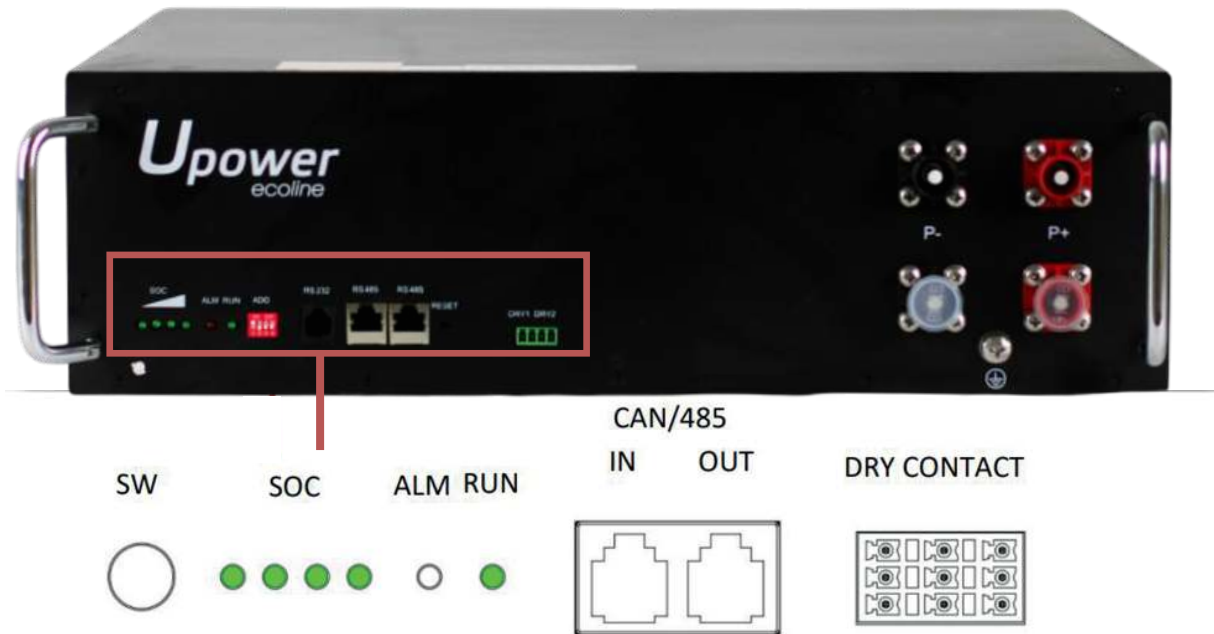


Typical Cycle Life



RESS BATTERY-48V

Front Panel



Optional Parts: Bluetooth module & APP

