

UE-T Series

48L1100

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.

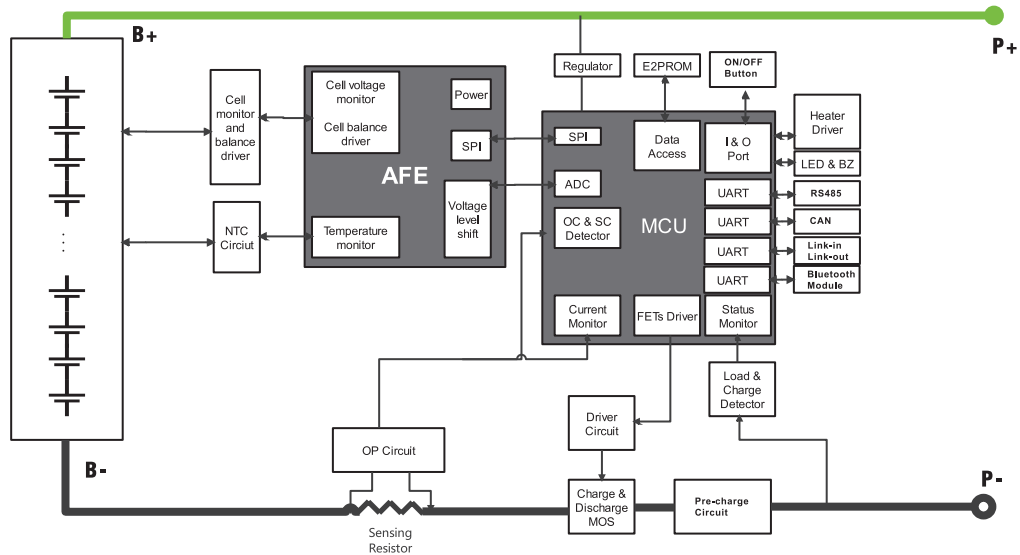
48V Series

100Ah



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-48LI100T
Nominal Voltage [V]	48
Nominal Capacity [Ah]	100
Total Energy [Wh]	4800
Dimension (W*D*H, mm)	442*400*130.5
Weight [Kg]	37.5
Max. Charging Current [A]	100
Max. Discharging Current [A]	100
Pulse Discharge Current	110A @10min 120A @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

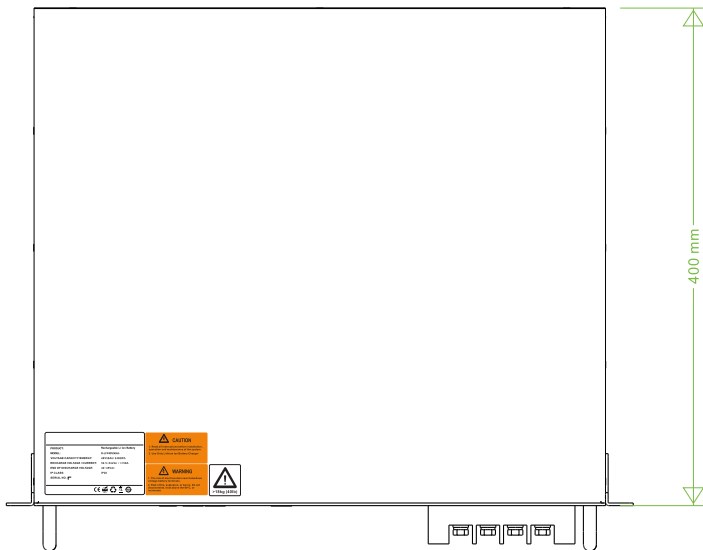
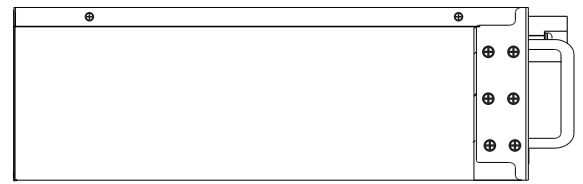
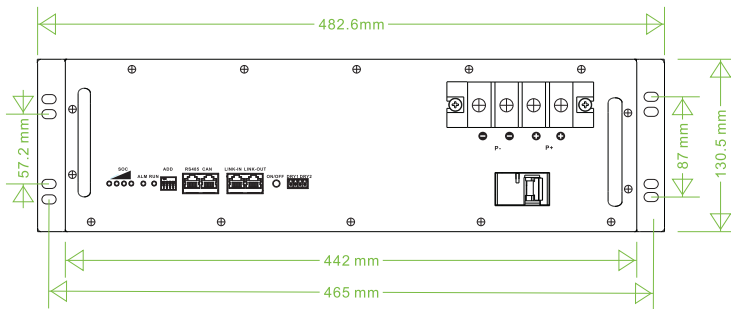
(3) For parallel power cable connection, refer to user manual.

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

The datasheet is subject to change without prior notification

RESS BATTERY-48V

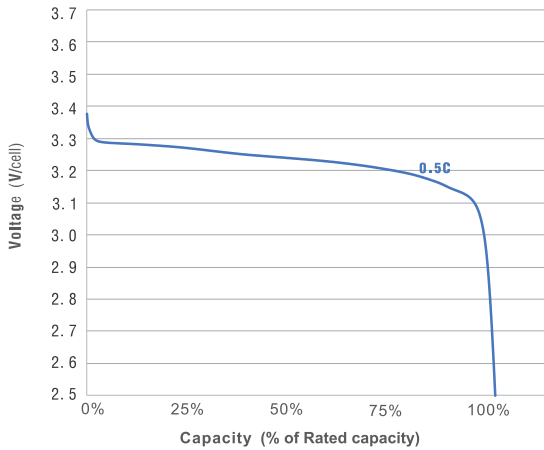
Dimension



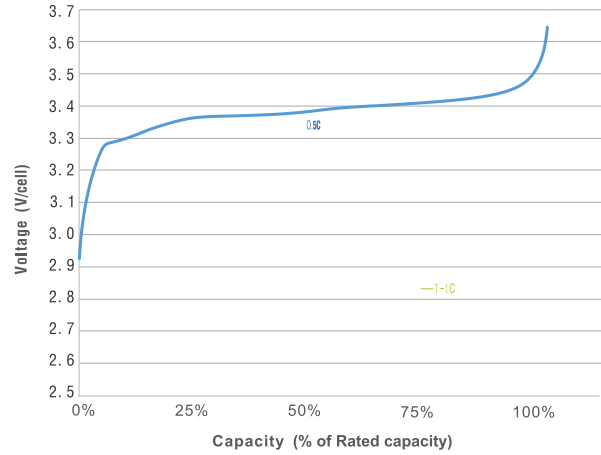
RESS BATTERY-48V

Performance Curve

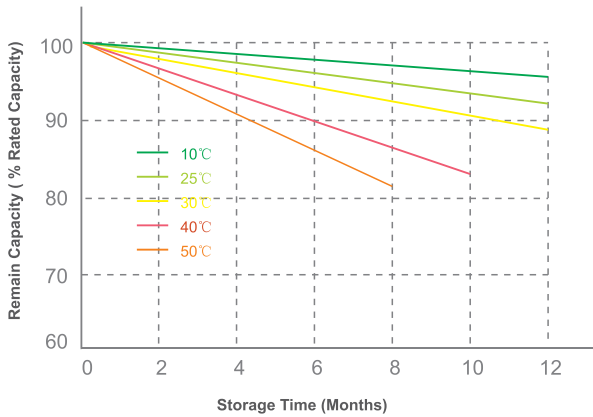
Dierent Discharge Rate and Temperature Characteristic



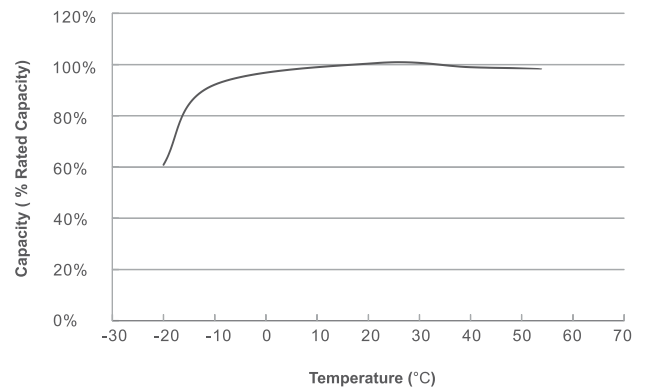
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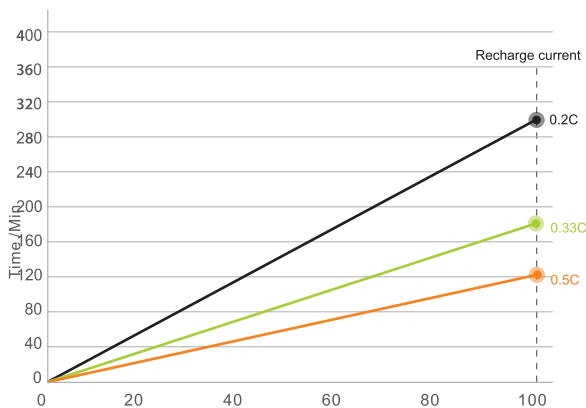
Different Temperature Self Discharge Curve



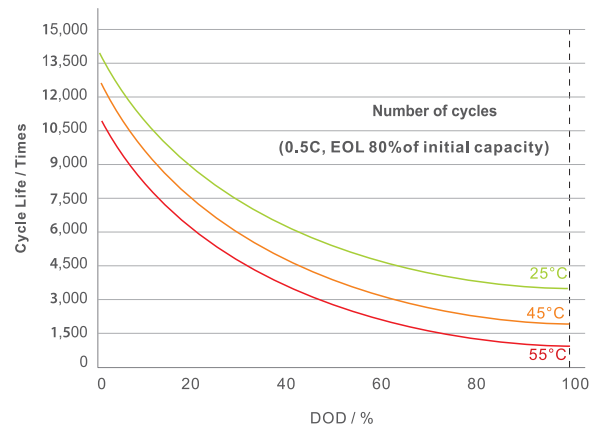
Capacity with Different Temperature



Typical Recharge Time



Typical Cycle Life



RESS BATTERY-48V

Front Panel



Optional Parts: Bluetooth module & APP

