

UE-T Series

UE-48L1135T-BB

Telecommunications Battery Series

48V 135Ah

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.

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MODEL PARAMETERS

Nominal Voltage	48V
Nominal Capacity	135Ah
Total Energy	6480Wh
Dimension (W*D*H, mm)	442*450*175
Weight	58 Kg
Max. Charging Current	100A
Max. Discharging Current	100A
Pulse Discharge Current	110A @ 10min 120A @ 10s
Charging Voltage	51.8V~54.7V
End of Discharge Voltage	42V (Backup Application) / 45V (Cycle Application)
Operation Humidity	0~95% RH (No Condensing)
Operation Temperature Range	Charge: 0~+55°C; Discharge: -20 ~ +55°C
Cycle Life	>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	Yes, Max. 15 Sets
Series Support	Not Support
IP Class	IP20
Certification	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.- 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, refer to user manual.

4.- Some models cell have UL, IEC certification.

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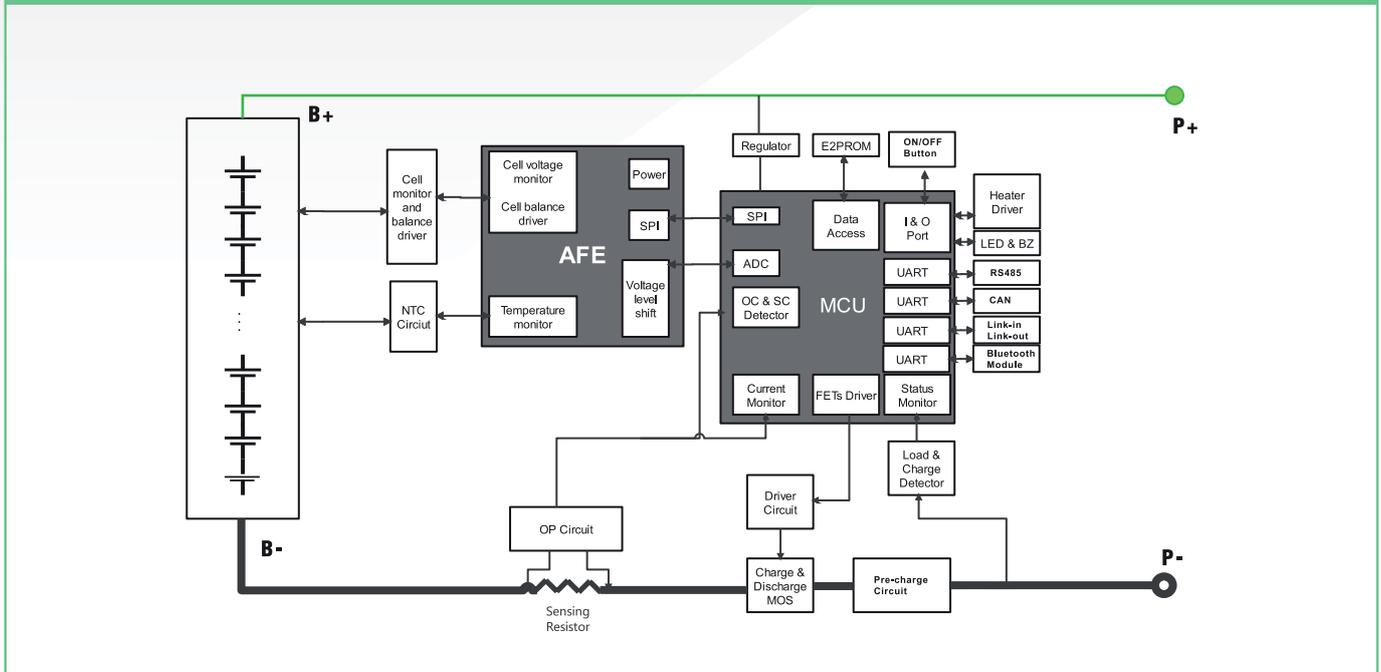
Upower

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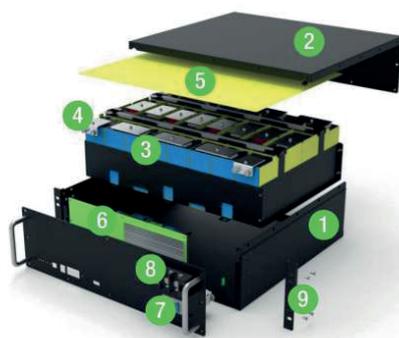
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SYSTEM TOPOLOGY



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- Ritarr (B0 version)
- 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.

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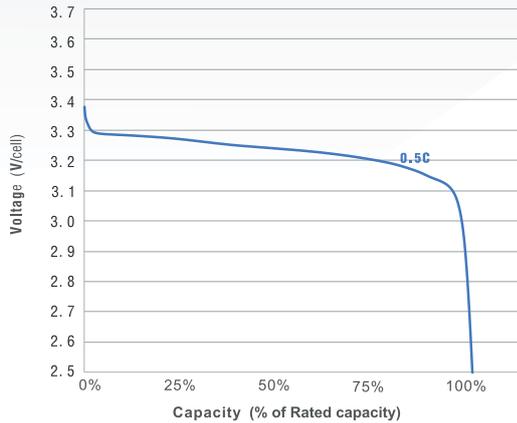
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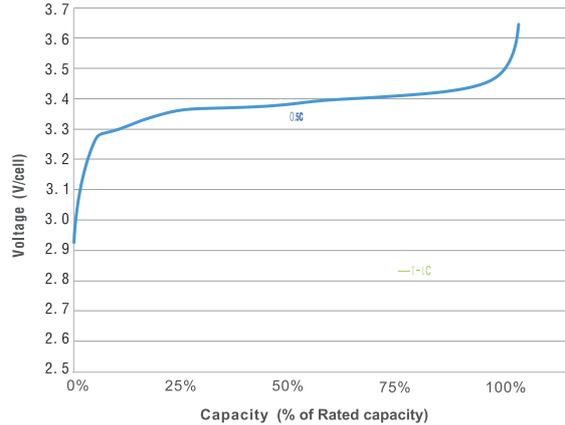
48V 135Ah

PERFORMANCE CURVE

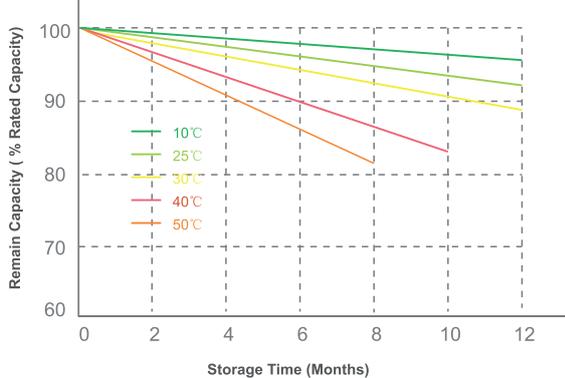
Different Discharge Rate and Temperature Characteristic



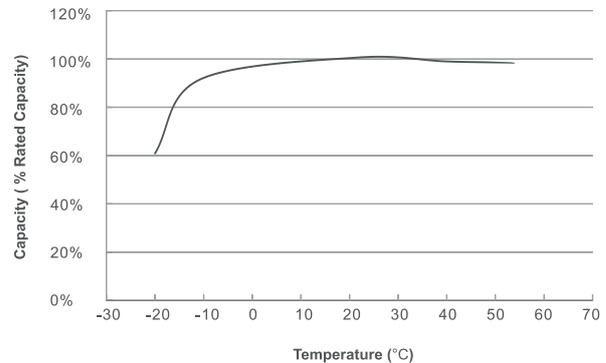
Different Charge Rate and Temperature Characteristic



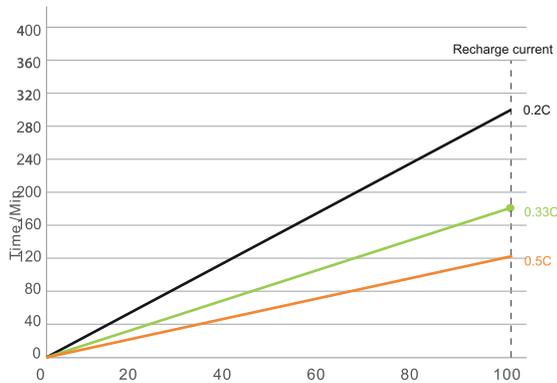
Different Temperature Self Discharge Curve



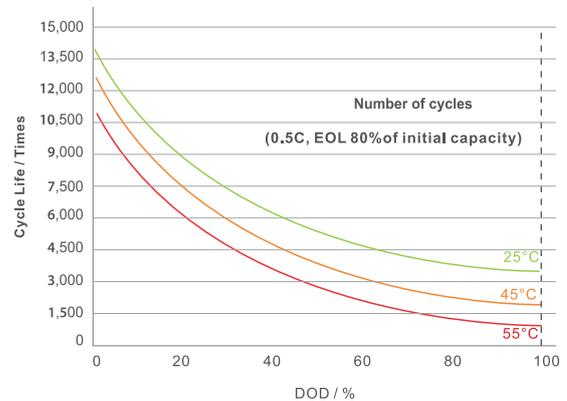
Capacity with Different Temperature



Typical Recharge Time



Typical Cycle Life



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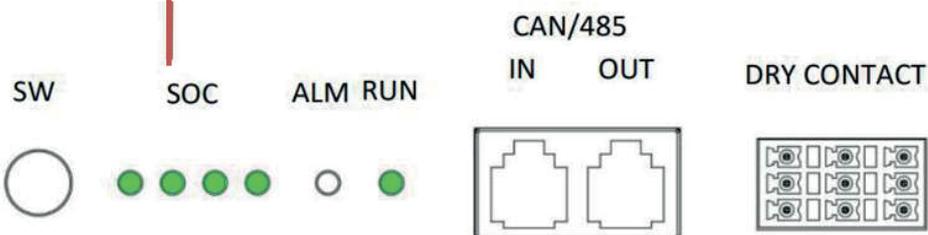
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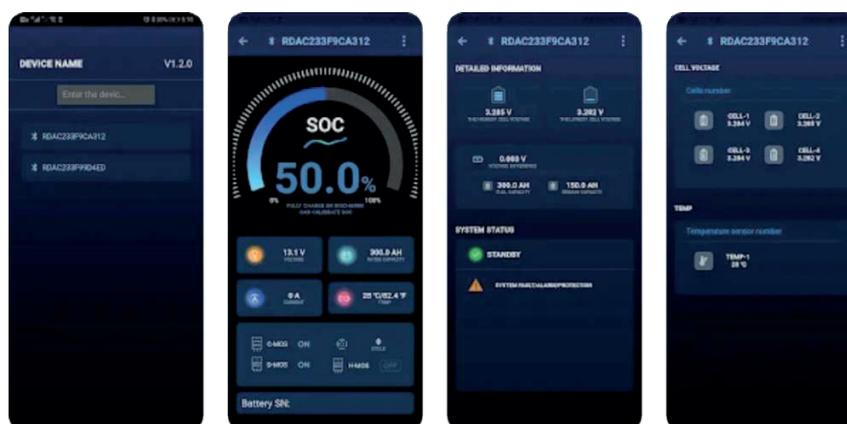
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FRONT PANEL



OPTIONAL PARTS: BLUETOOTH MODULE & APP



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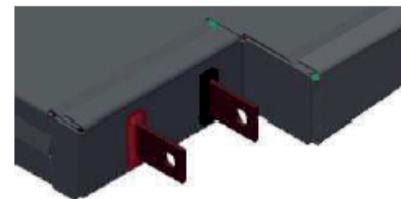
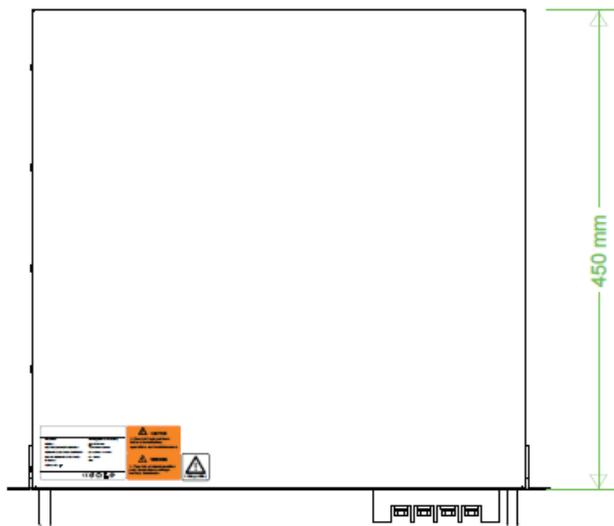
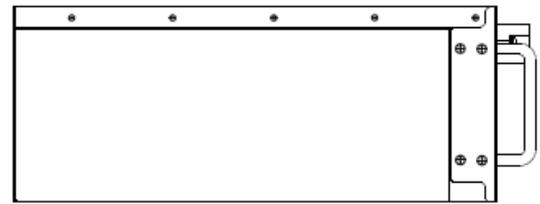
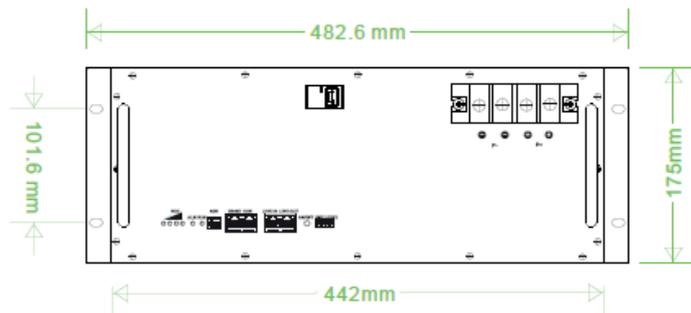
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DIMENSION



Special model busbar connector