

UE-T SERIES

51.2LI280T-S

51.2V 280Ah

Upower



51.2V Series
280Ah

SAFETY

- + Prismatic LiFePO₄ cells-3.2V280Ah, Longer cycle life and much more safety.
- + Low voltage system, safety for application.
- + Cell certification IEC62619, UL1973, UL9540A.
- + UN38.3 certification for system.

DESIGN

- + Standard 19" rack design.
- + Flexible and easily installation.
- + -20~+55°C widely temperature range.
- + Maintenance free.

SCALABILITY

- + Parallel support for more energy.
- + Optional accessories for Bluetooth module, Heater.

BATTERY MANAGEMENT SYSTEM

- + Independent protection for charge and discharge.
- + SOC, SOH display and PC software for detailed operation.
- + OVP, LVP, OCP, OTP, LTP protection.
- + RS485,CAN, communication port.

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PARAMETERS - 48V

MODEL	UE-51.2LI280T-S
Nominal Voltage [V]	51.2
Nominal Capacity [Ah]	280
Total Energy [Wh]	14336
Dimension (W*D*H, mm)	442*650*250
Weight [Kg]	105
Max. Charging Current [A]	150
Max. Discharging Current [A]	150
Pulse Discharge Current	165A @10min 180A @5s
Charging Voltage [V]	55.2~58.4
End of Discharge Voltage [V]	44.8 (Backup Application) / 48 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating 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

*The datasheet is subject to change without prior notification.

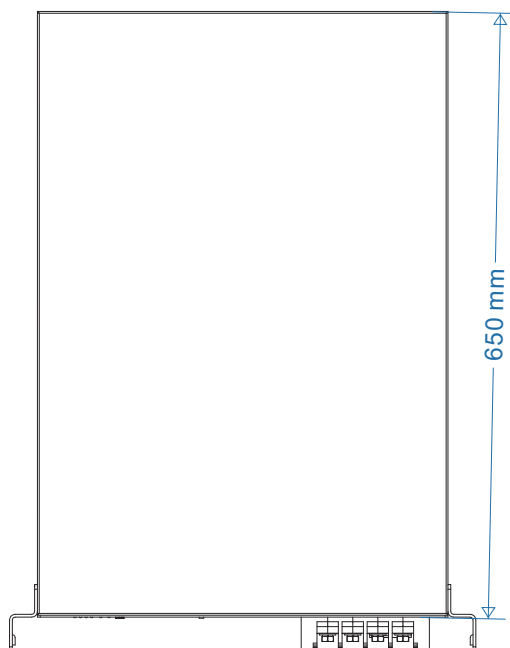
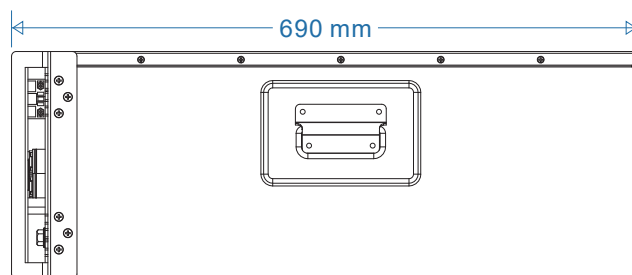
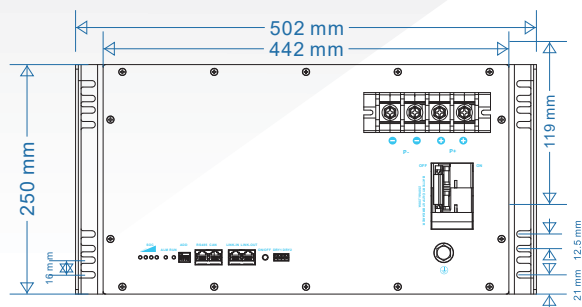
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DIMENSION



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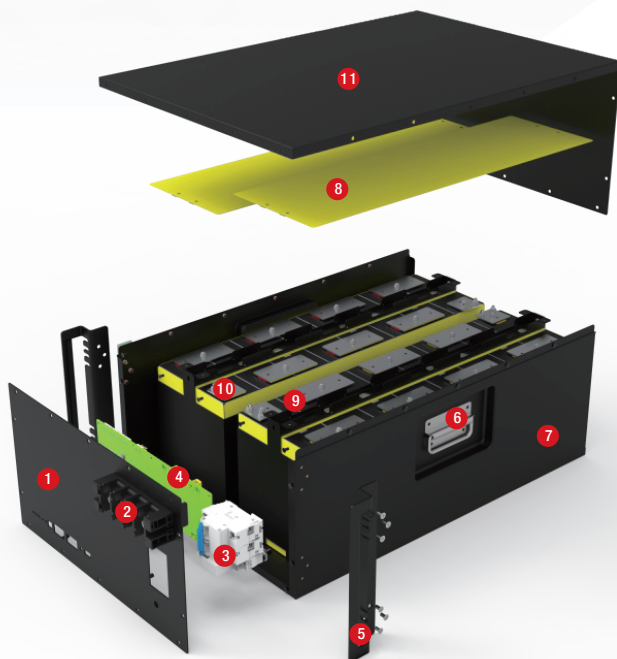
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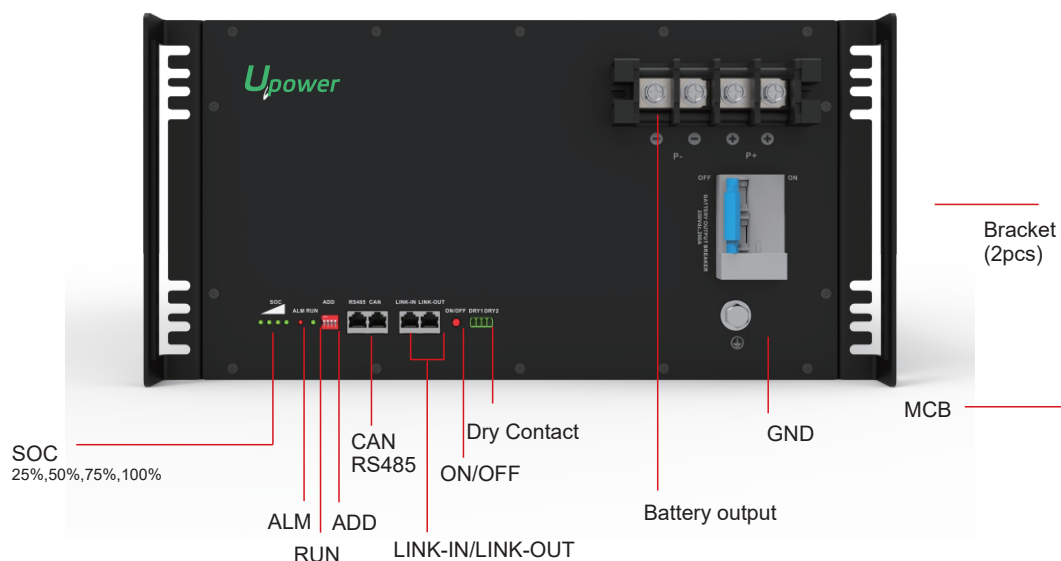
RACK MOUNTED LI-ION BATTERY

INTERNAL STRUCTURE



- ① Front Panel-SPCC with spraying
- ② Power Terminal -150A
- ③ Controlled MCB -DC 200A
- ④ BMS - 16S 150A
- ⑤ Brackets-SPCC with spraying
- ⑥ Handle- Stainless steel
- ⑦ Case -SPCC with spraying
- ⑧ Epoxy board
- ⑨ LiFePO4 cell - 3.2V 205Ah, 1P16S
- ⑩ LiFePO4 cell - 3.2V 205Ah, 1P16S
- ⑪ LiFePO4 cell - 3.2V 205Ah, 1P16S

FRONT PANEL



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LED INDICATOR DESCRIPTION

STATUS	NOMINAL WARNIG PROTECTION	RUN ●	ALM ●	SOC ● ● ● ●				DESCRIPTION
Shut down	Dormancy	OFF	OFF	OFF	OFF	OFF	OFF	
Standby	Nominal	Flash 1	OFF	Follow module capacity				Standby
	Warning	Flash 1	Flash 3					Module at low voltage
Charge	Nominal	ON	OFF	Follow module capacity				
	Warning	ON	Flash 3					
	Over-charge Protection	ON	OFF	ON	ON	ON	ON	LED turn to standby if no power supply
	Temperature, over-current, Failure protection	OFF	OFF	OFF	OFF	OFF	OFF	Stop charging
Discharge	Nominal	ON	OFF	Follow module capacity				
	Warning	ON	Flash 3					
	Under voltage Protection	OFF	OFF	OFF	OFF	OFF	OFF	Stop charging
	Temperature, over-current, short circuit, failure protection	OFF	ON	OFF	OFF	OFF	OFF	
Failure		OFF	ON	OFF	OFF	OFF	OFF	Stop charging

Note:

Flash 1: light 0.25s/off 3.75s

Flash 2: light 0.5s/ off 0.5s

Flash 3: light 0.5s / off 1.5s