Tajace LiFePO4 48V100Ah for Telecom Use



Functions of Battery

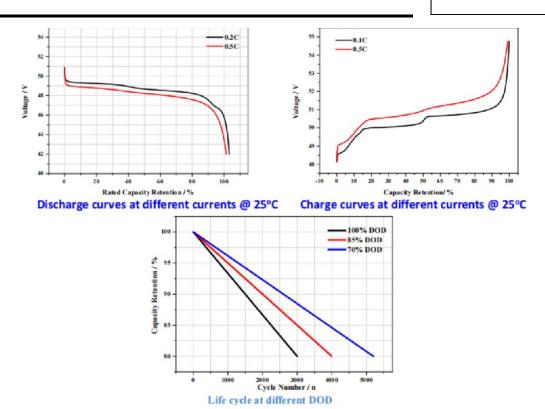
- OVP, UVP, OTP, OCP, SCP.
- Self-management on charging and discharging, single cell balancing function.
- Supports communication with equipment over RS485.
- Intelligent design, supports battery upgrade over RS232.
- Colorful LCD, displays battery information

Features of LiFePO4 Battery

- Longer Cycle Life: Offers up to 10 times longer cycle life and 5 times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Lighter Weight: About 40% of the weight of a comparable lead acid battery, A "drop-in" replacement for lead acid battery.
- Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintain high energy capacity.
- Wider Temperature Range: -10°C~55°C.
- Superior Safety: Lithium iron phosphate chemistry eliminates the risk of explosion or combustion due to high impact, over charging or short circuit situation.
- No Memory Effect: Support unstable partial state of charge (UPSOC) (charge/discharge) utilization.

Qualifications

- 20 years professional experience on lithium-ion battery power designing, manufacturing, sales
- Passed ISO9001,
 ISO14001, ISO45001,
 UL1642, CE, ROHS,
 IEC62619, IEC62620,
 UN38.3
- Battery cell cost advantage





Specification

	Model	T48100-3.5U
General Data	Nominal Voltage	48V
	Nominal Capacity	100Ah
	Energy	4800Wh
	Internal Resistance (ACR)	≤30mΩ
	Cycle Life	≥4000 cycles (25°C 85%DOD)
	Design Life	≥10 years @25°C
	Self-Discharge (30 days)	≤5% @25°C
	Efficiency of Charge	≥98%
	Efficiency of Discharge	≥100% @ 0.2C ≥96% @ 0.5C
	Charge Mode	0.2C to 54V, then 54V charge current to 0.02C (CC/CV)
	Max. Continuous Charge Current	100A
	Max. Continuous Discharge Current	100A
	Discharge Cut-off Voltage	≤43.5V
	Water Dust Resistance	IP20
	Case	Iron (Insulation painting)
	Dimensions (W*D*H)	442*450*156mm
	Max. Weight	≤41kg
	Min. Gravimetric Specific energy	≥117Wh/kg
	Parallel in maximum	15pcs
Operating Environme	Charge Temperature Range	0°C~45°C
	Discharge Temperature Range	-10°C~55°C
	Optimum Operation Temperature	10℃~35℃
	Storage Temperature	-10°C~35°C
		≤85% Relative Humidity
General Functions	Parallel Communication	RS485
	Battery with Equipment	RS485
	Battery Debugging Communication	RS232
	SOC Light	4 * LED
	Charge Current limit	When the charging current exceeds the set value, turn on the current limit and limit the current to 20A
Optional Functions	LCD Screen	☑Yes (Displays the total voltage pack, cell voltage, temperature, BMS status,etc)
		□No
	Gyroscope anti-theft	☐Yes (Keep battery tilt more than 15° to turn on anti-theft)
		☑No
	Buzzer	□Yes ☑ No
	Dry Contact	☑Yes PIN1 to PIN2: Normally Close, open during BMS is power off or unable to start by itself PIN3 to PIN4: Normally Close, Open during BMS failure(charging MOS failure, discharging MOS failure, NTC failure),cell failure(low voltage, big difference among the cell voltages)
		□No

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