



Telecom Energy Storage System T-P48100ESA1 48V Application

Telecom Energy Storage System T-P48100ESA1 is an excellent energy source for 48V applications. It is especially designed for telecom sites due to its extraordinary features: better charging and discharging performance, longer lifespan, smaller size, and theft-proof design. The energy storage system provides a perfect replacement for Lead Acid Battery.



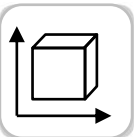
Intelligent anti-theft solution achieved via software lock¹, buzzer alarm, gyroscope and GPS, the last two of which are optional.



Operating temperature ranges from -20°C to 55°C. In cold area with temperature lower than 0°C, the battery supports low temperature heating (optional).



10 year designed lifespan with 3500 cycles.



Compact Design: 19 inch rack, 3.0U height
volume energy density((VED)≥170 Wh/L



Safety performance: state-of-the-art LFP cell and reliable BMS design.



Capacity	100 Ah @ 0.5C, 35°C (4800 Wh @ 0.5C, 35°C)
Cathode Material	LiFePO ₄
Rated Voltage	48V
Operating Voltage Range	42V~54V
Max. charging/discharging Current	100A/100A @ 35°C
Max. Discharging Power	4800W
Cycle Life	3500 cycles @ 0.5C, 80% DOD, 35°C
Cell Connection	1P15S
Weight	38kg
Dimensions (W×D×H)	≤442 mm×480 mm×130 mm (excluding latches and terminals)
Self-discharging Rate	≤3%/month/-20~45°C@95%RH
Charging and Discharging Capacity Efficiency	≥97%(@25°C)
Network Port	RS485/CAN; 2 dry contacts
Status Indication	SOC / ALM / RUN
Maximum Number of Parallel-connected Battery	16*N
Installation	19-inch rack installation (horizontal or vertical)
Protection & Alarm	Protection or alarm against over-temperature, over-current, over-charge, over-discharge, short circuit, etc.
Certification	CE, UN38.3, IEC62619, RoHS2.0, REACH
IP Rate	≥IP20
Cooling	Natural Cooling
Storage Temperature	7 days @(-30°C~ -20°C)@(45°C~ 60°C), 95%RH; 6 months @ -20°C~ 45°C, 95%RH
Operating Temperature	Charge: 0°C - 55°C; Discharge: -20°C~55°C (Degrading application with temperature beyond 0°C-45°C)
Operating Relative Humidity	5% - 95%
Altitude	≤3000m (Degrading application with altitude ranging from 2000m to 3000m)
Optional features	Software lock ¹ , Buzzer alarm, Gyroscope, GPS, LCD display, FUSE/Breaker, Automatic fire extinguishing, Low temperature heating and so on.

Note

¹The battery should communicate and connect with rectifier controller before opening the software lock.

Xiamen Ampace Technology Ltd.

411-1, No. 942, Tonglong 2nd Road,
Torch High Tech Zone, Xiamen City,
Fujian Province

The specifications are subject to change without prior notice.

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