

Telecom Smart Lithium Battery



TS48100

- Multi work mode, programmable constant DC voltage output
- Bidirectional boost/buck circuit technology
- Constant 48V voltage output in long distance
- Safe LFP chemistry technology
- Parallel with existing batteries to save investment
- Support maximum 32 sets in parallel connection
- Fully compatible with conventional supply system powered by VRLA

Technical Specifications

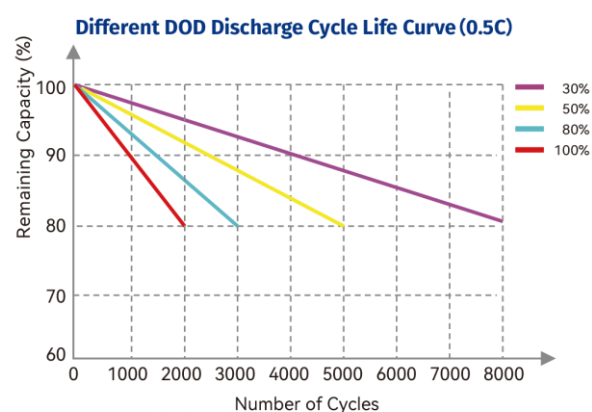
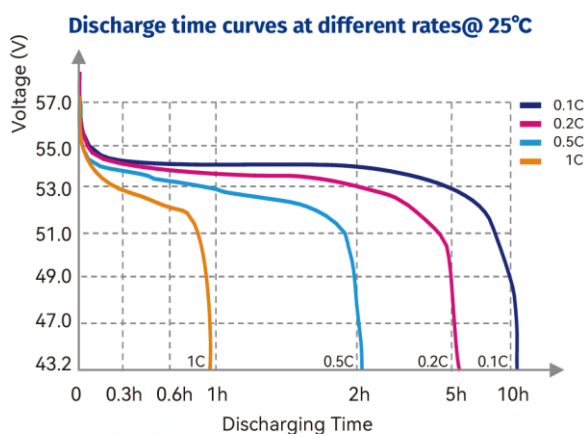
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|---------------------------------------|--------------------------|
| Battery Cell Connection | 15S |
| Rated Voltage (V) | 48 |
| Rated Capacity (Ah) | 100 |
| Rated Energy (Wh) | 4800 |
| Operating Voltage Range (V) | 40.5-54V |
| End-of-Discharge Voltage (V) | 40.5 |
| Limited Charge Voltage (V) | 51.5 |
| Standard Charge/Discharge Current (A) | 50CH/50DCH |
| Maximum Charge/Discharge Current (A) | 100CH/100DCH |
| Max Continuous Output Power (W) | 4800 |
| Lithium Chemistry | LiFePO ₄ |
| Cycle Life | > 3500 @ 80% DOD |
| Calendar Life | ≥ 10 years |
| Communication | RS485, CAN |
| Dimension (mm) | W442 * D450 * H130 ±1 |
| Weight (kg) | Approx. 43±1.5 |
| Protection Rating | IP 30 |
| Safety Standards | IEC62619, UL1973, UN38.3 |

Environmental Specifications

| | |
|--|----------|
| Storage Temperature (°C) | -20 ~ 45 |
| Operating Temperature Charging (°C) | 0 ~ 55 |
| Operating Temperature Discharging (°C) | -20 ~ 60 |
| Operating Relative Humidity | 5 ~ 95% |

Discharging Diagram

| | | | | | |
|----------------------|------|------|------|------|-----|
| Time (h) | 1 | 2 | 3 | 5 | 10 |
| Constant Current (A) | 93 | 49 | 33 | 20 | 10 |
| Constant Power (W) | 4732 | 2500 | 1700 | 1024 | 512 |



Notes:

When the battery pack is idle for a long time, please keep its power level at about 50%; When the battery pack needs long-term storage or idleness, it should be recharged every three months, and the power level is maintained at about 50%.

Please keep the battery pack in a dry and ventilated place, avoid contact with corrosive substances, and keep away from fire and heat sources.

