# TELECOMMUNICATION 48V 100 AH Battery



The first indigenous produced lithium battery for the telecommunications industry

The new generation lithium batteries developed by ASPILSAN Energy, directly for the telecommunication sector were produced with longer life, high performance and lighter weight.

#### **General features**

100Ah Telecommunication battery is produced from cells operating underLithium-Iron Phosphate (LiFePO4) chemistry. The battery is designed to work in harmony with the Telecommunication sector, UPS and Energy Storage Systems. In addition to providing a long cycle life, the battery allows discharge current up to 1C current levels. With the help of the heaters inside, it allows charging in conditions below 0°C. The battery has an internal current limiting feature. In case it is tried to be charged with a current above the maximum charging current, the battery continues to charge without being protected by limiting the charging current.



**ASPİLSAN Enerji Sanayi ve Ticaret A.Ş.** Turkish Armed Forces Foundation company.

## Charging Method (CCCV)

- Charge voltage 54.75V
- Maximum continuous charging current 50A
- In order not to damage the cells in the battery, when the charging current exceeds 50A, the current is limited by the BMS and charging is continued at 10A.

• Operating temperature range when charging is  $-5^{\circ}C \sim 55^{\circ}C$ .

#### Cycle Life

 After 2000 cycles at 80%DoD under 0.5C Load; Capacity 80%

#### **BMS** Functions

- After 2000 cycles at 80%DoD under
- 0.5C Load; Capacity 80%
- Low Temperature Protection in Discharge/Charge,
- High Temperature Protection in
- Discharge/Charge,Short Circuit Protection Etc.

#### Field of application

- It can be used in all areas that need batteries in the telecommunication, UPS and energy storage sectors.
- It can be used for all systems requiring high capacity.

aspilsan.com

# *Se* aspilsan<sup>®</sup>

## TELECOMMUNICATION 48V 100 AH Battery

In Communication Technologies Significant Contribution to National and Indigenous Production



| Parameters   |
|--|
| 48V  |
| (0.5C Charge, 0.2C Discharge @25°C)1 100Ah   |
| 40V-54.75V   |
| 54.75V   |
| 50A  |
| 10A  |
| 40V  |
| 100A (IC)  |
| Discharge: -20°C~+60°C Charge: -5°C~55°C   |
| At 0.5C Load at 80%DoD after 2000 cycles, Capacity ≥ 80%   |
|  |
| Yes  |
| Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low  |
|  |
| Temperature Protection, Discharge/Charge High Temperature Protection,<br>Short Circuit Protection, Etc.                            |
|  |
| Short Circuit Protection, Etc.   |
| Short Circuit Protection, Etc. MODBus (RTU) - RS485  |
| Short Circuit Protection, Etc. MODBus (RTU) - RS485   6 batteries can be connected in parallel.                                    |
| Short Circuit Protection, Etc. MODBus (RTU) - RS485   6 batteries can be connected in parallel.                                    |
| Short Circuit Protection, Etc. 577 575 777<br>MODBus (RTU) - RS485<br>6 batteries can be connected in parallel.<br>ALM / RUN / SOC |
| Short Circuit Protection, Etc. 5,7,7,9,7,8,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7   |
| Short Circuit Protection, Etc. 57, 57, 57, 57, 57, 57, 57, 57, 57, 57,   |
|  |

#### ASPİLSAN Enerji A.Ş. Battery Systems Production Facility

Mimarsinan OSB Mahallesi 1. Cadde No:43 Kayseri / Turkey

Tel: +90352 321 12 15-16 Faks: +90352 321 12 17

#### ASPİLSAN Enerji A.Ş. R&D Center & HDRS Batteries Production Facility

Organize Sanayi Bölgesi 12. Cadde No: 8 Kayseri / Turkey

Tel: +90352 321 12 15-16 Faks: +90352 321 12 17



aspilsan.com