RACK TYPE 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.



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°C ~ 55°C.

Cycle Life

After 3500 cycles at 80%DoD under
 0.5C Load; Capacity ≥ 80%

BMS Functions

- After 3500 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.
- Base stations, Energy Storage Systems and Solar Systems

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RACK TYPE Battery

In Communication Technologies Significant Contribution to National and Indigenous Production



Features	Parameters
Nominal Voltage	48V
Nominal Capacity	(0.5C Charge, 0.2C Discharge @25°C)ì 100Ah
Operating Voltage Range	40V-54.75V
Charge Voltage	54.75V
Maximum Continuous Charge Current	50A
Modular Current (Limited Charge Current)	10A
Discharge Cut-off Voltage	40V
Maximum Continuous Discharge Current	100A (IC)
Operating Temperature Range	Discharge: -20°C to +60°C Charge: -20°C to +55°C (With built-in heater) Charge: 0°C to +55°C (Without built-in heater)
Cycle Life	At 0.5C Load at 80% DoD after 3500 cycles, Capacity ≥ 80%
Functional Features	
Internal Heater	Yes
Internal Heater	Yes
BMS Protection Functions	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low
	155
	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low Temperature Protection, Discharge/Charge High Temperature Protection,
BMS Protection Functions	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low Temperature Protection, Discharge/Charge High Temperature Protection, Short Circuit Protection, Etc.
BMS Protection Functions Communication Protocol	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low Temperature Protection, Discharge/Charge High Temperature Protection, Short Circuit Protection, Etc. MODBus (RTU) - RS485
BMS Protection Functions Communication Protocol Parallel Connecting	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low Temperature Protection, Discharge/Charge High Temperature Protection, Short Circuit Protection, Etc. MODBus (RTU) - RS485 6 batteries can be connected in parallel.
BMS Protection Functions Communication Protocol Parallel Connecting LED Indicators	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low Temperature Protection, Discharge/Charge High Temperature Protection, Short Circuit Protection, Etc. MODBus (RTU) - RS485 6 batteries can be connected in parallel.
BMS Protection Functions Communication Protocol Parallel Connecting LED Indicators Mechanical Properties	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low Temperature Protection, Discharge/Charge High Temperature Protection, Short Circuit Protection, Etc. MODBus (RTU) - RS485 6 batteries can be connected in parallel. ALM / RUN / SOC
BMS Protection Functions Communication Protocol Parallel Connecting LED Indicators Mechanical Properties Dimensions	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low Temperature Protection, Discharge/Charge High Temperature Protection, Short Circuit Protection, Etc. MODBus (RTU) - RS485 6 batteries can be connected in parallel. ALM / RUN / SOC Width: 444mm , Depth:395mm , Height: 175mm
BMS Protection Functions Communication Protocol Parallel Connecting LED Indicators Mechanical Properties Dimensions Weight	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Low Temperature Protection, Discharge/Charge High Temperature Protection, Short Circuit Protection, Etc. MODBus (RTU) - RS485 6 batteries can be connected in parallel. ALM / RUN / SOC Width: 444mm , Depth:395mm , Height: 175mm 47 ±2 kg
BMS Protection Functions Communication Protocol Parallel Connecting LED Indicators Mechanical Properties Dimensions Weight Terminal	Low/High Cell Voltage Protection, Discharge/Charge Over Current Protection, Discharge/Lo Temperature Protection, Discharge/Charge High Temperature Protection, Short Circuit Protection, Etc. MODBus (RTU) - RS485 6 batteries can be connected in parallel. ALM / RUN / SOC Width: 444mm , Depth:395mm , Height: 175mm 47 ± 2 kg M6 (Tightening Torque Value: 4N.m)

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