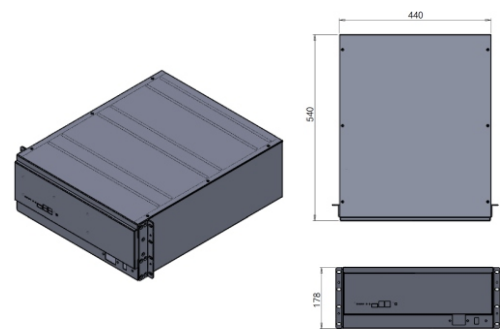


# HSDLFP-48100A (48V 100Ah)

LiFePO<sub>4</sub> Battery pack for standby telecommunication

HSDLFP-48100A is 48V pack for communications standby type LiFePO<sub>4</sub> (lithium iron phosphate) battery products, the pack uses the advanced LiFePO<sub>4</sub> battery technology with the benefit of long cycle life, small size, light weight, safety and environmental protection, and has a strong environmental adaptability, it is idea for harsh outdoor environments.

The pack also integrates a smart battery management and monitoring module, support for remote centralized monitoring and remote battery management and maintenance, to meet the requirements of unattended. Therefore, the HSDLFP-48100A can fully meet the backup power supply requirements of the access network equipment, mobile communications equipment, transmission equipment, micro base stations and microwave communication equipment.



## Features and Benefits

- **High energy density:**
  - light weight, saving space.
  - Delivers up to 3X the energy density of conventional lead acid batteries.
- **Long cycle life:**
  - Proven LiFePO<sub>4</sub> chemistry, maximum cycle life for deep cycle and hybrid application.
  - Above 3000 deep cycles at 100%DOD.
- **Fast charge capability**
- **Integrated Battery Manage System(BMS):**
  - Protect internal cells from overcharge, over-discharge, high current, etc. ensure battery safety and reliability.
  - Equalization and balance each cell, prolong battery life.
  - Intelligent monitors, remote measure, remote communication, remote control
- **Support parallel connection to increase capacity**
- **LED status and alarm indication**
- **Maintenance free**

## General Specifications

Model	HSDLFP-48100A
Nominal voltage	48 V
Nominal capacity	100 Ah (C <sub>5</sub> , 25degC)
Discharge end voltage	40.5 V
Charge voltage	54 V
Max. Charge current	50 A
Max. Discharge current	50 A
Dimensions	440 x 540x 176 (WxDxH in mm) (4U in height)
Approx. Weigh	63 kg
Cycle life	3000+ cycles at 100%DoD
Design life	10 years

# HSDLFP-48100A (48V 100Ah)

LiFePO<sub>4</sub> Battery pack for standby telecommunication

## Layout of Front Panel

Status indicator	SOC(green) / RUN(green) / ALM(rec)
Communication	Rs232 / RS485 x 2
Reset Key	Available
Power source port	JiTE 2-pole terminal block

## Operation Environment

Temperature range	Discharge -20 to +60°C Charge 0 to +60°C Storage 0 to +45°C
Temperature recommendation	Discharge +15 to +35°C Charge +15 to +35°C Storage +15 to +35°C
Humidity	5% to 95%, no condensation

## Constant current discharge data(A) at 25degC

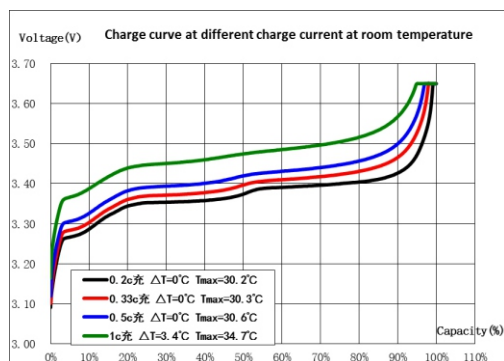
F.V/Time	1h	2h	3h	5h	10h
40.5V	/	49A	33A	20A	10A

## Constant power discharge data(watts) at 25degC

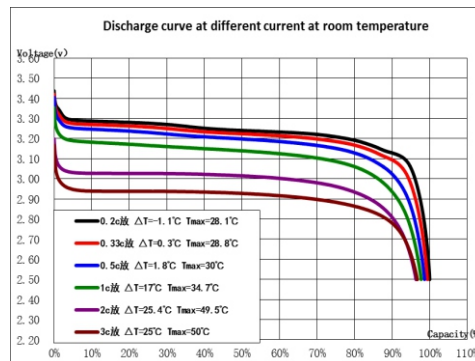
F.V / Time	1h	2h	3h	5h	10h
40.5V	/	2400W	1610W	965W	483W

## Performance Curve

Charge curve at different charge current at 25degC



Discharge curve at different at 25degC



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