BCN 48V Smart
Li-ion Battery pack

Features


Local monitoring

Mixed using


Fire extinguishing


Centralized Monitoring

- Support Bluetooth communication, and read data by mobile APP
- Built-in DC-DC converter, support boost and constant voltage output to achieve boost and remote supply, mixed use of VRLA battery and Lithium battery, and mixed use of new and old battery.
- PACK-level fired extinguishing in seconds, minimizing the risk of fire.
- Protocol conversion module as optional, which realize centralized monitoring for remote sites.

Introduction

The 48V smart Lithium-ion battery pack is widely used in backup power in Telecommunication application. With built-in intelligent BMS and DC/DC converter, it supports boost, buck, and constant power output. It can directly mix use with VRLA battery in parallel to realize reuse and expansion of existing batteries, to provide stable backup power for application like Telecom base station,Railway, Substation etc.

BCN 48V Smart Li-ion Battery pack

Specification

Model	DFPA48100-S	DPFA48165-S
Cathode material	LiFePO4	
Nominal voltage	48VDC(15S)	
Nominal capacity	100Ah@0.2C,35°C(4800Wh@0.2C,35°C)	165Ah@0.2C,35°C(7920Wh@0.2C,35°C)
Maximum charging power	4800W	
Discharging current	100A/100A@35°C	
Rated charging voltage	54-56.4V	
Cycle life	3500 cycles @0.2C,85%DOD,35°C	
Design life	15 years	
Weight	≈ 42kg	≈ 58kg
Dimension(W*D*H)	482(442)mmx410mmx3U(130mm)	482(442)mmx560mmx3U(130mm)
Communication interface	CAN/RS485;2 dry contacts	
Maximum quantity of parallel connection	CAN; 32 groups	
Self discharge @25°C	< 5% （90 days storage）	
Terminal	M6, torque 4N· m	
Installation type	19-inch rack	
Protection	Over-charging, over-discharging, short circuit, over-current, reverse connection, over-temperature protection	
Certification	UN38.3	
Storage temperature	0°C~40°C	
Transportation temperature	-40°C~60°C	
Operating temperature	Charging 0°C~45°C,Discharging：-20°C~55°C	
Relative humidity	5%~95%	
Operating atmospheric pressure	61kPa~113kPa	

Charge and discharge curve(25°C)