U3A1-50P-A Energy3U rack-mount battery system for telecom

Brief Introduction

U3A1-50P-Astandard backup battery is based on Lithium iron phosphate battery of BYD.

It has been designed to provide backup power for telecom equipment or energy storage system in household.

It has excellent safety, high energy density, long lifetime, very nice temperature performance, green power newly of excellent safety and high reliability.

Feature

- ETSI standard19inch 3U rack-mount design
- Build-in battery control for efficient operation
- Comprehensive communication
- Compatible with standard telecom equipment
- Support parallel connection between batteries.

Advantage

- More cabinet for value generating equipment
- Less weight for pole mounted sites
- No active cooling system required
- High operational reliability
- ♦ Lifetime more than10 years at +25°C
- Optimal management
- ROHS compliance

Application

- Telecom Basic station
- Data center
- Telecom Outdoor cupboard
- solar hybrid system
- Home energy storage system



U3A1-50P-A

| Nominal characteristic | |
|--|--|
| Nominal voltage[V] | 51.2 |
| Capacity [C/5][Ah] | 50 |
| Energy[C/5][WH] | 2560 |
| Mechanical characteristic | |
| Width[mm] | 482.6(19") |
| Height[mm] | 130 (3U) |
| Depth[mm] | 440 (Without handle); |
| | 478 (With handle); |
| Weight[kg] | 34.8±0.5 |
| Electric characteristic | |
| Voltage window[V] | 40~57.6 |
| Charge voltage[V] | 56.5 |
| | (Float charge:55.2,Boost charge: 56.8) |
| Max charge current | 1C |
| Max. Output power[W] | 2500 |
| Recharge time[h] | 0.2C*6hr (standard) |
| Discharge current at the various back up times | |
| 1h | 1C |
| 2h | 0.5C |
| 4h | 0.25C |
| Operating conditions | |
| Lifetime @+25℃ | >10 years |
| Cycle life[100%DOD,+25℃] | 3500 |
| Operating temperature | Charge :-10~50℃; |
| | Discharge:-20∼55℃; |
| Transport regulation compliance | UN3480 |
| Storage temperature | -20℃ |
| | ~45(<3months,20%~60%SOC); |
| | -20°C~30(<1 |
| | year,30%~60%SOC); |
| EMC standard compliance | EN 61000 chapter |
| | 4.2,4.3,4.5,4.6/EN55022 |
| Certificate | TUV SUD/CE/ UL1642/UN38.3 |
| Protection class | IP20 |
| Maintenance | Charge the battery half a year |
| | when in storage |





Battery management System function

- Current detect at charging and discharging
- Hardware protection
- Discharge control
- Charge control
- Cell balance
- Reverse protection
- Cell voltage detect
- Temperature detect
- Communication(RS485)
- Operating state display of system (LED)
- PACK voltage detect
- Fault alarm

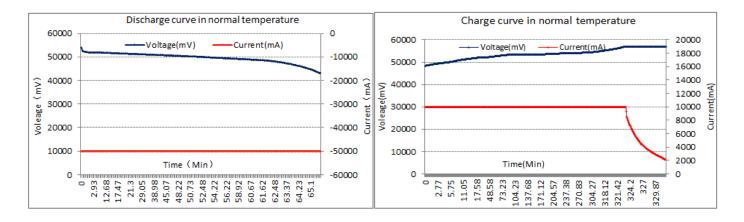
Communication

• Communication interface(RS485), battery operating state (current, voltage, temperature etc.)

Industrial vision

- U3A1-50P-A battery has been developed and qualified to suit the demanding requirements of performance and operational reliability of our customers
- Cell manufacturing is carried out on established industrial production lines
- Manufacturing plants comply with the legislation in force in each country and with international quality standards (IS09001 QS9000)

[Charge & Discharge curve]:



BYD COMPANY LIMITED

Address: No.3009, BYD Road, Pingshan, Shenzhen, 518118, P.R.China

Tel: +86-755-8988 8888-53260 Fax: +86-755-8483 5502 E-mail: eubatterygrp@byd.com Web: www.byd.com/energy

www.byd.comFacebook.com/bydcompany Twitter.com/byd company Youtube.www.byd.com com/byd company