



LFELi-4850B (48V 50Ah) LITHIUM BATTERY

APPLICATION

Battery System for telecommunications usually used as backup power in the communications industry or uninterruptible power supply (UPS). Typical applications as below:

- Fiber-optic access network at fixed-line
- FTTH connection
- FTTB + LAN / WiFi connection
- Outdoor micro base stations

FEATURES AND BENEFITS

- Intra-system balancing
- Flame retardant system to UL94V-0
- Good high temperature performance
- High cycle times and long service life
- Safe Lithium Iron Phosphate Technology
- Thousands of cycles, under normal conditions
- High energy density and conversion efficiency
- Environmentally friendly, without any heavy metals
- Complete with Battery Management System built-in
- Can use most standard VRLA chargers for this system
- Low self discharge rate of 2 years before required recharging
- Easy installation, can be in 19-inch standard cabinet or be wall-mounted
- Built-in automatic protection for over-charge, over-discharge & over-temperature conditions



DISCHARGE TABLE

| Constant Current Discharge Table (Amperes) at 25°C | | | | | | | |
|--|---------------------------------|------|------|------|------|-----|------|
| Model | Voltage | Time | 1 h | 2 h | 3 h | 5 h | 10 h |
| LFELi4850A | End of discharge voltage 43.2 V | | 47.5 | 24.0 | 16.6 | 10 | 5 |
| LFELi4850B | End of discharge voltage 43.2 V | | 47.5 | 24.0 | 16.6 | 10 | 5 |

| Constant Current Discharge Table (Watts) at 25°C | | | | | | | |
|--|---------------------------------|------|------|------|-----|-----|------|
| Model | Voltage | Time | 1 h | 2 h | 3 h | 5 h | 10 h |
| LFELi4850A | End of discharge voltage 43.2 V | | 2400 | 1205 | 805 | 484 | 243 |
| LFELi4850B | End of discharge voltage 43.2 V | | 2400 | 1205 | 805 | 484 | 243 |

DIMENSIONS



CE-EMC

IEC62619

ISO14001

ISO9001

CHARACTERISTICS

| ITEM | SPECIFICATION | |
|-----------------------------------|--|---------------------------|
| Model | LFeLi4850A | LFeLi4850B |
| Rated Capacity (10HR) | 50 AH | 50 AH |
| Nominal Voltage | 48 V | 48 V |
| Discharge Ending Voltage | 43.2 V | 43.2 V |
| Charging Limited Voltage | 57.6 V | 57.6 V |
| Max. Charging Current | 50.0 A | 50.0 A |
| Max. Continue Discharging Current | 50.0 A | 50.0 A |
| Weight | Approx. 28 Kg | Approx. 28 Kg |
| Display | Without a display screen | With a LCD display screen |
| Parallel connection | Parallel connection is optional (up to 10P). When paralleling, the max. charging current is 10A. | |
| Dimension (mm) | 442 (Length) * 385 (Width) * 132 (Height) | |
| Containing Cell | 3.2V 50AH | |
| IP Class | IP30 | |
| Outer Package Material | White bake lacquer steel case (battery rack or cabinet is optional) | |
| Operating Temperature | Charging: 0 to +45°C Discharging: -20 to +60°C Storage: -20 to +60°C | |