

# Delta Lithium-ion Battery

## 48V Application

### DBS48V50P

#### Long service life battery ideal for 48V applications

Delta DBS48V50P battery is an excellent energy source with long service life for 48V applications such as telecom, datacenter, forklift and residential power backup. It is a compact package of high energy density to save space and weight.

Its maintenance-free design coupled with the intelligent remote monitoring function can eliminate on-site maintenance efforts and save considerable operational costs, and then contributes to lower TCO (Total Cost of Ownership) compared with conventional batteries.

For safe and reliable operation, Delta's advanced BMS (battery management system) can provide the function to protect the battery against abnormal conditions, like over-temperature, overcharging, and over-discharging. BMS can also make the battery operations more optimal to serve over long term.



#### Special Features

##### High Safety

- Certification: UN38.3
- Advanced BMS to protect battery module from abnormal conditions

##### Retrofit application

- Direct replacement of Lead-acid battery pack

##### Flexible Capacity Expansion

- Parallel expansion by Master-Slave structure up to 255 modules

##### Excellent Manageability

- Front-end panel access
- User-Friendly signal indication for the status of battery system
- Allowed for multi-units or multi-sites remote management

Order P/N: [SBM030A01401A00](#)

#### Product Specification

Nominal Voltage	51.8 V
Nominal Capacity	50 Ah
Nominal Energy	2.59 KWh
Dimension (mm)	199 (W)x 187 (H)x 537 (L)
Weight	Approx. 24 Kg
Certifications	UN 38.3
Cycle Life@25°C	~ 3,000 cycles*1
Operating Temperature	Charge: 0°C to +45°C Discharge: -20°C to +45°C
Interface	CAN 2.0 B (500 kHz)
Discharge Rate	1C (50A continuously) Max 1.3C (65A pulse power)

\*1) SOC range is 90% to 10%. SOC means "State Of Charge".



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#### Applications

- Energy Back-up & storage for residential, commercial and industrial needs
- Direct replacement for conventional 48V lead-acid battery system
- Telecom Back-up power
- Forklift

#### Standalone Application

With a built-in BMS, it can be used for stand-alone operation.



Capacity  
2.59KWh

#### Flexible Capacity Expansion

Parallel expansion by Master-Slave structure up to 255 modules without additional BMS



Max. Capacity 660kWh  
(2.59KWh\*255 in parallel)