

# Delta IP65 48V50Ah

## IP65 Lithium Battery Module



To ensure the whole site functions optimally, besides the advanced power system, a backup solution is essential. The Delta IP65 48V50Ah Lithium Battery is the ideal choice for a battery backup solution.

Delta's IP65 48V50Ah Lithium Battery is a LiFePO4 Lithium Battery that offers the best security for BMS protection. It has high cycle times, long service life and good high temperature performance. The embedded BMS includes cells balanced to extend battery life, self-charge current limit so charge current control from a rectifier is not necessary, and battery cut off for abnormal conditions such as OCP, OVP or OTP.

The IP65 enclosure plus DIN rail mounting kit allows easy installation of the battery in pole mount or wall mount for outdoor applications. The unique Plug and Play design to lets it easily work with Delta IP65 rectifiers.

### Key Features

- Plug and Play
- Built-in automatic protection for over-charge, over-discharge and over-temperature
- Built-in auto-charging current limiting circuit
- Battery optimal control algorithm for efficient operation
- Built-in cell balancing function
- Corrosion resistant enclosure
- Maintenance free

### Applications

- Small Cell 3G / 4G / 5G
- Pico Cell 4G/5G
- CATV



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## NORMAL

Nominal Voltage	48.0 V <sub>DC</sub>
Nominal Capacity	50 Ah (capacity is measured under 0.2C / 25°C @ BOL)

## ELECTRICAL

Cell	LFP 50 Ah
Configuration	15S1P
Energy	2,400 Wh (capacity is measured under 0.2C / 25°C @ BOL)
<b>Discharge (25°C)</b> Maximum Continuous Current Cut-off Voltage LVBD Voltage	50 A 37.5 V <sub>DC</sub> 41.3 V <sub>DC</sub>
<b>Charge (25°C)</b> Maximum Continuous Current Charge Voltage	50 A 52.5~53.5 V <sub>DC</sub> , CC-CV (Recommended 53.0 V <sub>DC</sub> )
Auto-charge Current Limit Function	Max 10 A
Input / Output	Power Terminal x 2 pcs, Alarm Terminal x 1 pc
Dry Contact	D.O x 2, Battery fail / Battery high temperature

## MECHANICAL

Dimensions (W x H x D)	310 (±1) x 481 (±1) x 175.5 (±1) mm (Without mounting kit)
Weight	Approx. 30 ± 2 kg (Without mounting kit)
Parallel Connecting Quantity	Max 6 modules in parallel in system
Materials of Enclosure	Aluminum with corrosion resistant coating
Color	Light Gray (NCS S 1002-B)
Thermal Management	Heater / Low-k thermal barrier / Solar radiant resist coatings
Mount Kit (Optional)	Ground-mounted, wall-mounted or pole-mounted

## ENVIRONMENTAL

Design Life (25°C)	> 10 years
Cycle Life (0.5C/0.5C, 25°C) *	80% DOD 2,500 cycles
Operating Temperature	-40 to +50°C (De-rating from 35°C)
Storage Temperature	0 to +45°C (Recommended range: 10 to +30°C)
Altitude	0 to +3000 m
Related Humidity	0~95% RH

## STANDARDS

Safety	IEC62619, CE
Transportation	UN 38.3
Environment	RoHS

## ORDERING INFORMATION

BSPMM-GT0151C0EU0	48V 50Ah lithium battery without gateway
BSPMM-GT0151C1EU0	48V 50Ah lithium battery with gateway

## MODEL DIFFERENCES

Model	BSPMM-GT0151C0EU0	BSPMM-GT0151C1EU0
Gateway	No	Yes
Orion Compatibility	CAN, Modbus	Modbus
ID Setting	Manual	Automatic



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