

TWS OmniV-P4815 Battery PACK

TWS OmniV series standard lithium-ion battery pack, with the advantages of intelligent networking and high scalability, can be used in various applications, including industrial, power battery and energy storage system, etc.

OmniV-P4815 51.2V 15Ah 768Wh

Key Benefits

- Easy system integration with one click configuration
- Intelligent self-diagnosis
- Extremely low power consumption at shutdown mode
- CAN/CANopen communication
- 1C fast charging
- IP 67 grade



General

| | |
|------------------------|--|
| Size (L x W x H) in mm | 92 x 155 x 350 |
| Cell Chemistry | LiFePO4 |
| Communications | CAN/CANopen |
| Weight | ≈ 6.1 kg |
| Environment Compliance | RoHS and REACH compliant |
| Power Connection | Positive terminal: M6 screw Negative terminal: M5 screw |
| Communication Port | Type: 2 x M8, plug, male sockets |
| Connection | TE T4030014041-000 or same size model |

Applications



AGV/AMR



Material handling



Robotics



Professional cleaning

Electrical Specifications

| | |
|------------------------------|----------------------------|
| Nominal Voltage | 51.2 V |
| Nominal Capacity | 15 Ah/768 Wh |
| Charging Method | CC / CV |
| Max. Charge Voltage | 58.4 V |
| Max. Cont. Charge Current | 15 A |
| Max. Cont. Discharge Current | 25 A |
| Cycle Life | Up to 4000 cycles |
| Scalability | Up to 10 packs in parallel |



eMobility



Urban vehicle



Electric boat



Residential energy storage

Certifications



UN38.3

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Scalable Battery System

Battery System Intelligence

- Easy system integration with one click configuration
- Advanced status indicator
- Support 125 kbps to 1 Mbps communication
- Intelligent self-diagnosis
- Advanced cell and pack balancing
- Reverse polarity and short circuit protection

Battery System Performance

| | |
|--------------------|---|
| Nominal Voltage | 51.2 V |
| Energy Scalability | Up to 7.68 kWh |
| Safety Function | Over/Under Voltage Over/Under Temperature Over Current Short Circuit |

Operational Specifications

| | |
|-----------------------|--|
| Charge Temperature | 0°C to 55°C |
| Discharge Temperature | -20°C to 60°C |
| Storage Temperature | ≤ 3 months, 0°C to 45°C > 3 months, 0°C to 25°C |
| Storage Humidity | ≤ 80% RH |

Discharge Performance

