



# DATASHEET

## Li-Ion Battery Softpack 36V series

### PRODUCT OVERVIEW

The 36V Lithium-Ion Battery Softpack series is a high-performance, lightweight energy storage solution designed for various applications, including e-mobility, energy storage systems, power tools, and more. Equipped with an intelligent Battery Management System (BMS), these battery packs provide enhanced safety, monitoring, and control capabilities. The BMS integrates advanced communication interfaces such as CANBUS, RS485, and UART, allowing seamless connectivity to your system.

### APPLICATIONS



#### eMobility

Bikes, scooters, wheelchairs, and more.



#### Energy Storage

Residential, commercial, off-grid backup systems, and more.



#### Portable Power

Power tools, outdoor applications, and more.

### PROTECTION FEATURES

- Overcharge Protection
- Over-discharge Protection
- Overcurrent Protection
- Short Circuit Protection
- Temperature Monitoring and Protection

### COMMUNICATION INTERFACES

- CANBUS
- RS485
- UART

### ADDITIONAL FEATURES

- State of Charge (SOC) Estimation
- Cell Balancing
- Remote Monitoring Capability

M O D E L

TN10S2P-50-01

TN10S3P-50-01

TN10S4P-50-01

TN10S5P-50-01

TN10S6P-50-01

**ELECTRICAL SPECIFICATIONS**

Cell Configuration	10S2P	10S3P	10S4P	10S5P	10S6P
Nominal Voltage	36V	36V	36V	36V	36V
Nominal Capacity	10Ah	15Ah	20Ah	25Ah	30Ah
Energy	360Wh	540Wh	720Wh	900Wh	1080Wh
Charge Voltage	42V	42V	42V	42V	42V
Cut-off Voltage	30V	30V	30V	30V	30V

**CURRENT PARAMETERS**

Max Continuous Discharge Current	60A	80A	100A	100A	100A
Peak Discharge Current ( $\leq 10$ sec)	100A	120A	120A	180A	200A
Max Charge Current	20A	30A	40A	50A	60A

**PHYSICAL SPECIFICATIONS**

Dimensions (L x W x H)	210 x 80 x 55 mm	210 x 80 x 80 mm	210 x 80 x 105 mm	210 x 80 x 130 mm	210 x 80 x 155 mm
Weight	1.6 kg	2.4 kg	3.2 kg	4.0 kg	4.8 kg
Enclosure Material	PVC Shrink Wrap	PVC Shrink Wrap	PVC Shrink Wrap	PVC Shrink Wrap	PVC Shrink Wrap

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	Charge: 0°C to 45°C
	Discharge: -20°C to 60°C
Storage Temperature	Short-term (< 1 month): -20°C to 45°C
	Long-term (> 1 month): 0°C to 25°C
Humidity	$\leq 85\%$ RH

**PERFORMANCE SPECIFICATIONS**

Cycle Life	1,000 cycles (at 80% Depth of Discharge, 25°C)
Designed to Meet	CE, UN 38.3, RoHS, IEC 62133
Warranty	12 months

**GOT QUESTIONS?  
GET IN TOUCH WITH US**

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