



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 (≤ 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**

Dan-Tech Energy GmbH

www.danenergy.com

Max-Planck-Str. 7, Berlin 12489 Germany

+49 (030) 5770-34433

info@danenergy.com