S-24V60-TRX

PROTRXion™ Series | Technical Data Sheet

Certified to global functional safety standards

Fast charging
within 2 hours with leading charger OEMs

Long shelf life performance
with shutdown mode

Scalable to increase runtime

Automotive grade cells
from top tier manufacturers

- **Patented virtual BMS** Single battery platform with advanced modular network
- **UL2271** Certified off-road safety for low speed electric vehicles
- **Universal Communication Protocol** (CANopen)
- **State-of-the-art module balancing technology**
- **Soft start control** (System pre-charge)
- **Supports regenerative braking**

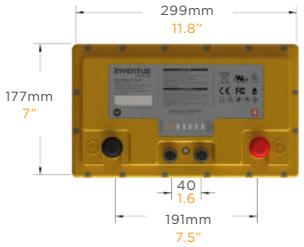
Electrical Specifications

Cell Chemistry	LiFePO4
Pack Voltage (Nom/Max)	25.6V / 28.0V
Pack Energy	1.51kWh (59Ah)
Specific Energy	90Wh/kg**
Continuous Power	1.9kW (75A)
Recommended Charge CCCV	30A / 28.0V
Peak Power (<10sec)	6.14kW (240A)
Cycle Life (Based on cell data @ 25°C)	3,000 @ 80% DoD
Scalability	48V & 360Ah

Operational Specifications

Charge Temp	0°C to 55°C
Discharge Temp	-20°C to 60°C
Storage Temp	-20°C to 60°C
Humidity (Operating)	5% to 95%
Humidity (Storage)	<70%

Mechanical Specifications



Terminal Type (ISO)	M8
Terminal Torque (Nm)	17 ± 1
Weight	16.7kg (36.8lbs)
Installation Orientation	Horizontal / Vertical
Ingress Protection Rating	IP67*
Case Flammability Rating	Flame Retardant UL94 V-0

Certifications

- UL1642 (Cell)
- UL2271 (Pack)
- IEC62133 (Cell/Pack)
- IEC62619
- FCC Class B
- CE
- UN38.3

*IP65 if communication ports left unmated
**Usable capacity will depend on charge voltage, the depth of discharge, age, and other environmental conditions.

Market Applications

Professional Cleaning | Light Electric Vehicle | Aerial Work Platform | Material Handling | Robotics | Renewables & Energy Storage

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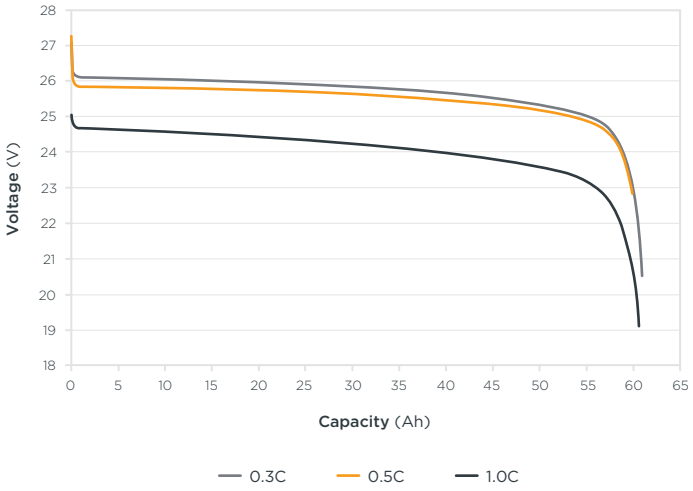
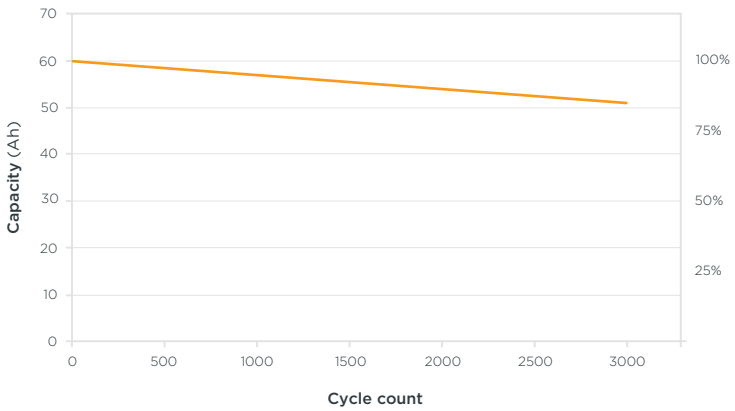
Capacity vs. Discharge Rate

Test condition: Ambient Temperature



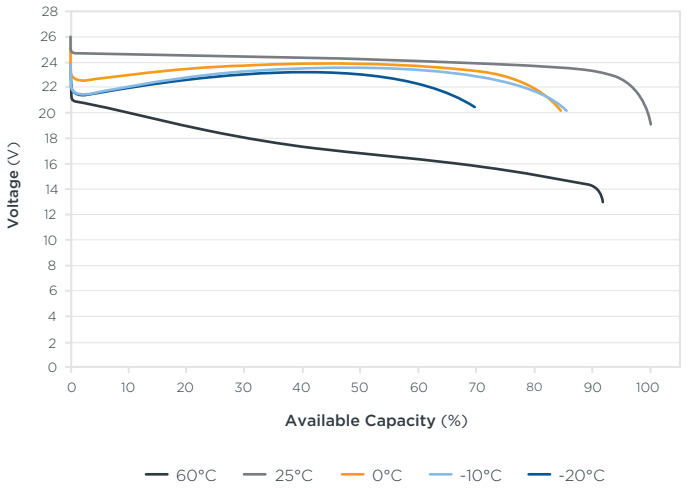
Cycle Life

Based on cell data: charge 0.5C, discharge 1C at 25°C & 80% DoD



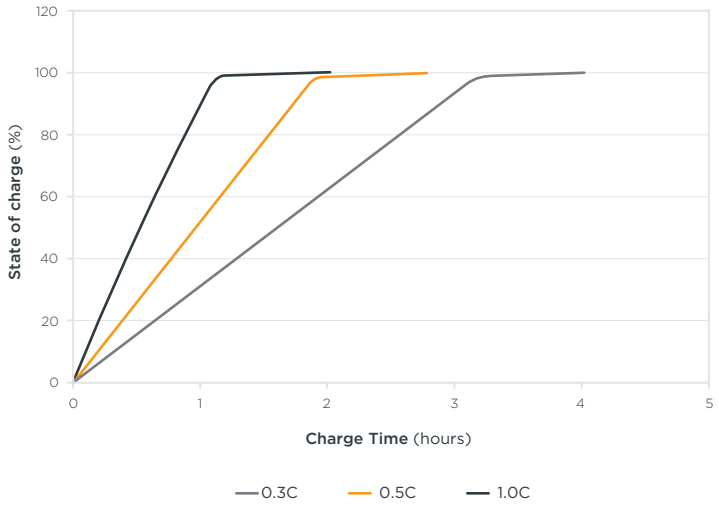
Voltage and Capacity vs. Temperature

Discharge current: 1.0C



Charging Performance

Test condition: Ambient Temperature



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All data in this publication is for reference use only. Models may vary from shown.

Request more Information

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