# M-24V60-TRX

PROTRXion™ Series | 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**

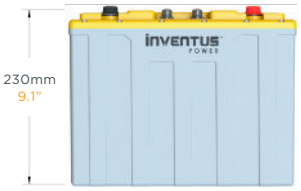
## Electrical Specifications

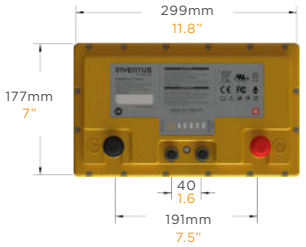
| | |
|---|---|
| Cell Chemistry | LiFePO4 |
| Pack Voltage (Nom/Max) | 25.6V / 28.0V |
| Pack Energy | 1.51kWh (59Ah) |
| Specific Energy | 90Wh/kg** |
| Continuous Power | 1.9kW (75A) |
| Recommended Charge CCCV | 30A / 28.0V |
| Peak Power (<10sec) | 6.14kW (240A) |
| Cycle Life (Based on cell data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

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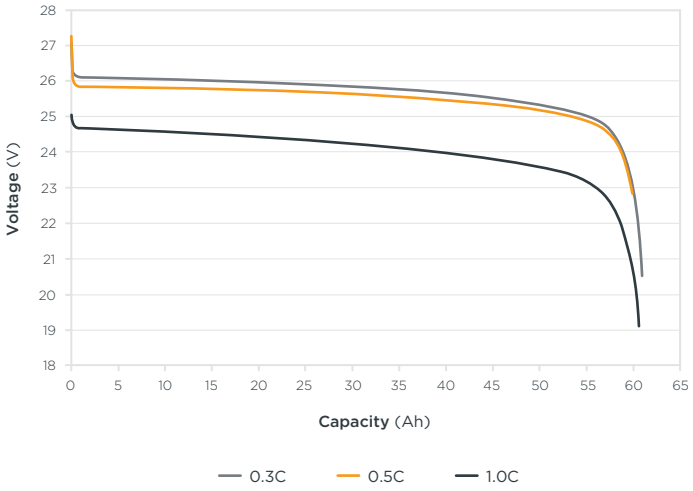
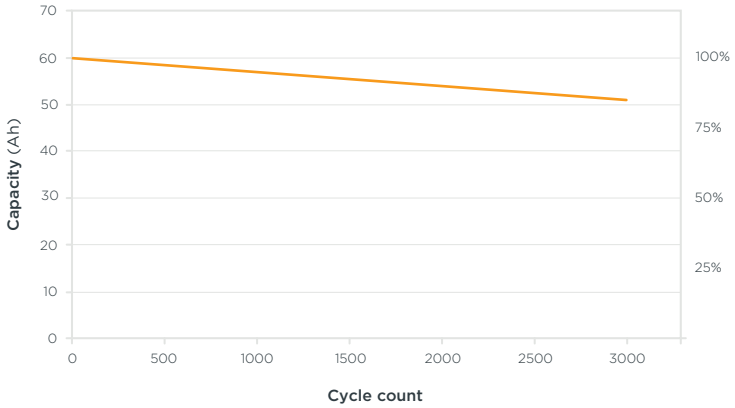
## Capacity vs. Discharge Rate

Test condition: Ambient Temperature



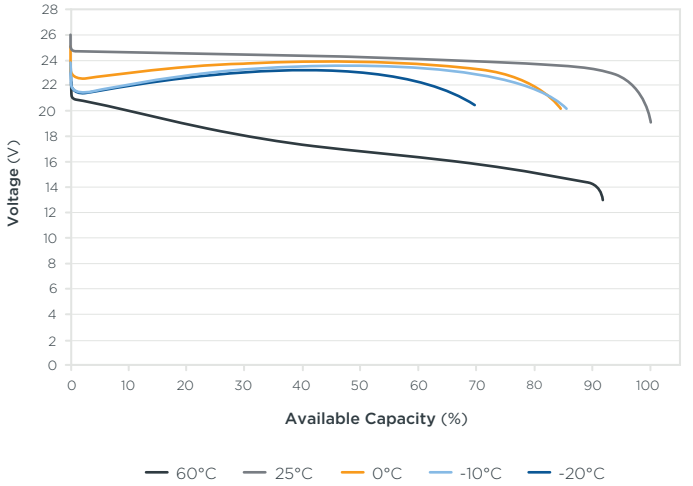

## Cycle Life

Based on cell data @ 25°C



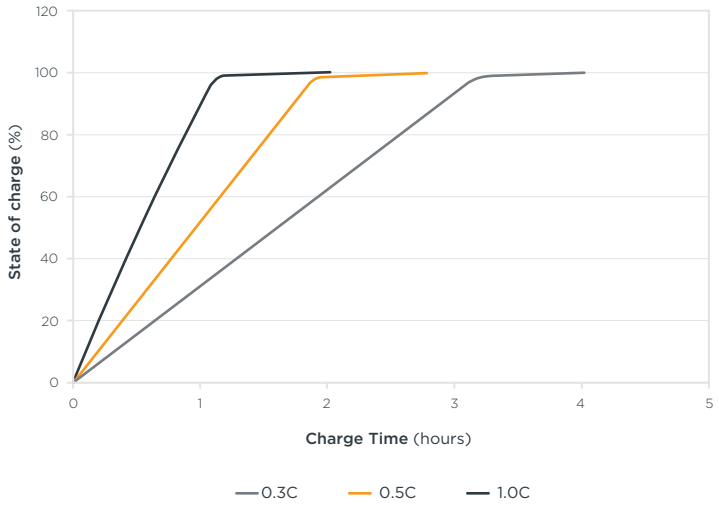

## Voltage and Capacity vs. Temperature

Discharge current: 1.0C




## Charging Performance

Test condition: Ambient Temperature








**Request more Information**

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