

M-24V60-TRX

PROTRXion™ Series | Data Sheet

inVENTUS
POWER



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**

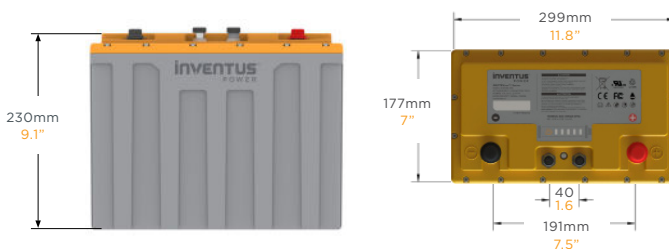
Electrical Specifications

| | |
|--|------------------|
| 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



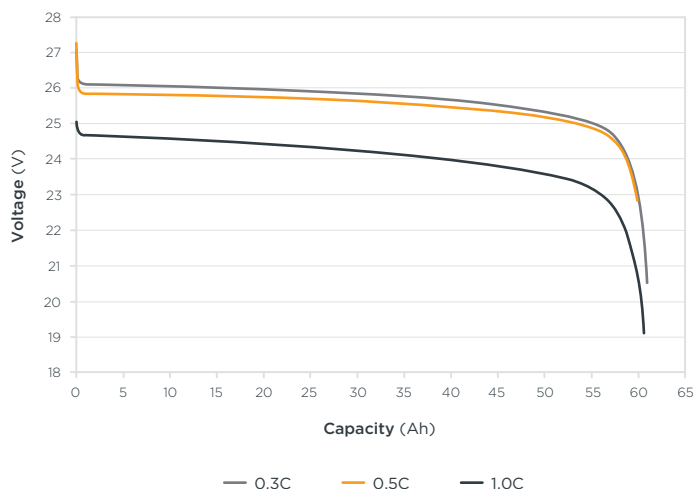
Material Handling



Robotics

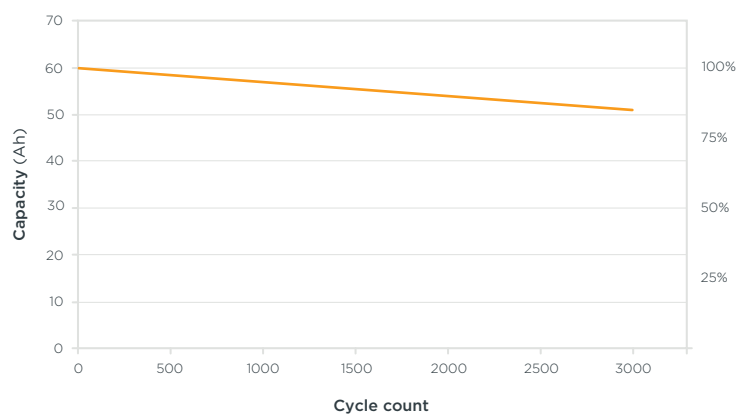
Capacity vs. Discharge Rate

Test condition: Ambient Temperature



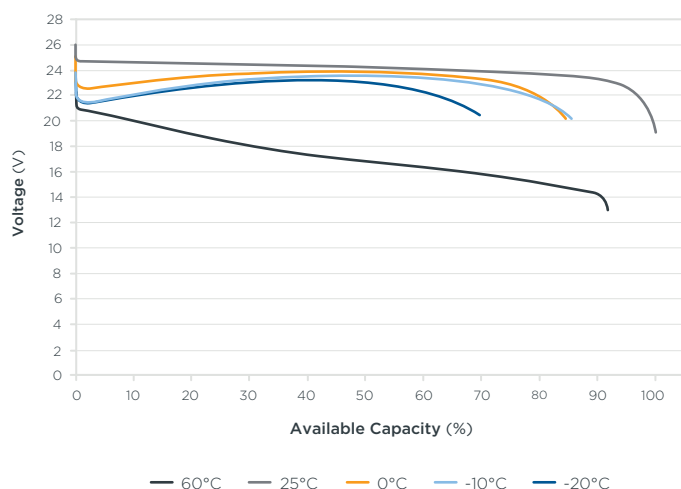
Cycle Life

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



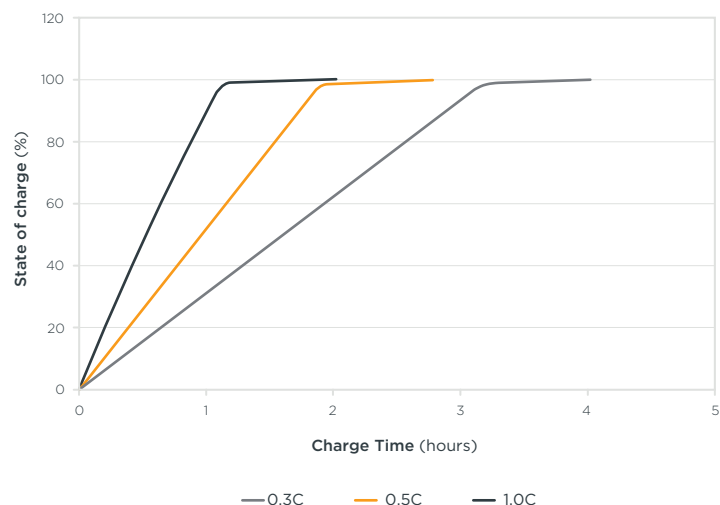
Voltage and Capacity vs. Temperature

Discharge current: 1.0C



Charging Performance

Test condition: Ambient Temperature



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**Request
more Information**

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