LV-24V50

PROTRXion™ Series | Technical Data Sheet

UL and IEC certified for global safety

Fast charging
within 1 hour with leading charger OEMs

Long shelf life
24 months from shipment

Integrated BMS
for enhanced performance and efficiency



- **Universal Communication Protocol** (CANopen)
- **State-of-the-art cell balancing technology**
- **Soft start control** (System pre-charge)

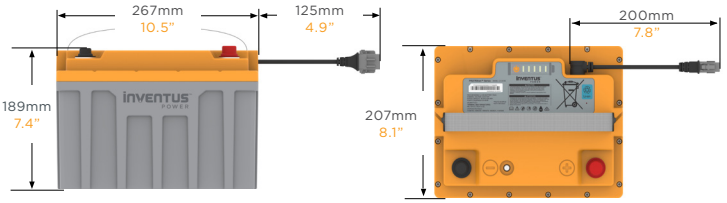
Electrical Specifications

Cell Chemistry	Lithium Iron Phosphate
Pack Voltage (Nom/Max)	25.6V / 28.0V
Pack Energy	1.2kWh (48Ah)**
Specific Energy	100 Wh/kg**
Continuous Power	2.56kW (100A)
Recommended Charge CCCV	24A / 28.0V
Peak Power (<30sec)	4.9kW (192A)
Cycle Life *(Based on cell data @ 25°C)*	2,000 @ 80% DoD
Scalability	Standalone

Operational Specifications

Charge Temp	0°C to 45°C
Discharge Temp	-20°C to 55°C
Storage Temp	-20°C to 60°C
Humidity (Operating)	5% to 95%
Humidity (Storage)	<70%

Mechanical Specifications



Maximum Dimensions

Terminal Type (ISO)	M8 (Pos & Neg)
Terminal Torque (Nm)	17 ± 1 (Pos & Neg)
Weight (Nom)	11.0kg (24.2lbs)
Installation Orientation	Horizontal / Vertical
Ingress Protection Rating	IP67*
Case Flammability Rating	Flame Retardant UL94 V-0

Certifications

- UL2271
- IEC62619
- FCC Class B
- EN 1175
- CE
- UN38.3
- IEC60730 Class B***
- IEC 62133

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

Market Applications

Professional Cleaning

Robotics

Material Handling

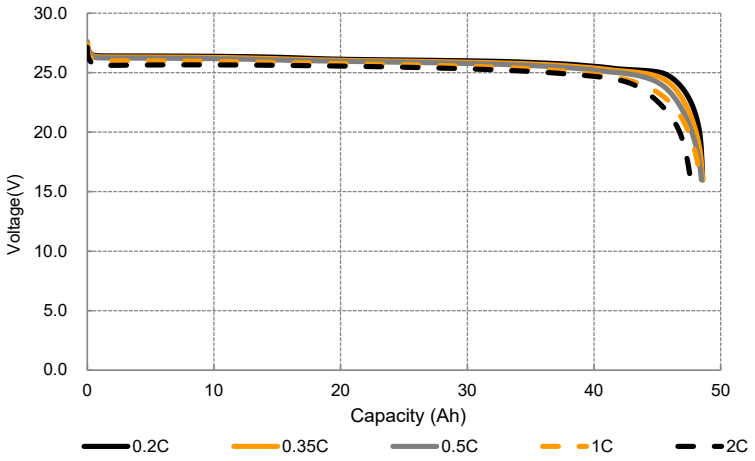
Aerial Work Platform

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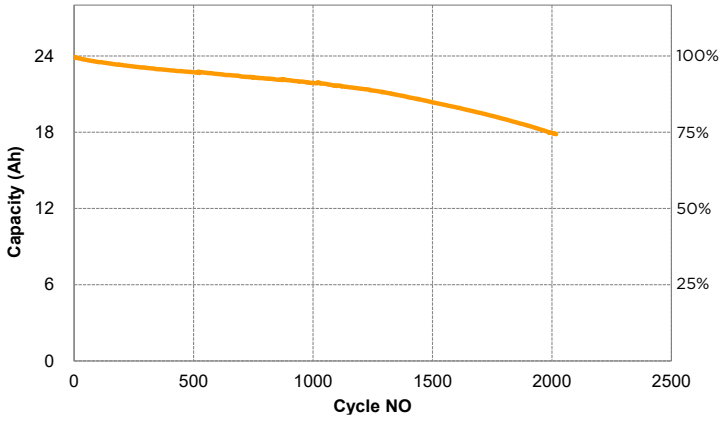
Capacity vs. Discharge Rate

Test condition: Ambient Temperature



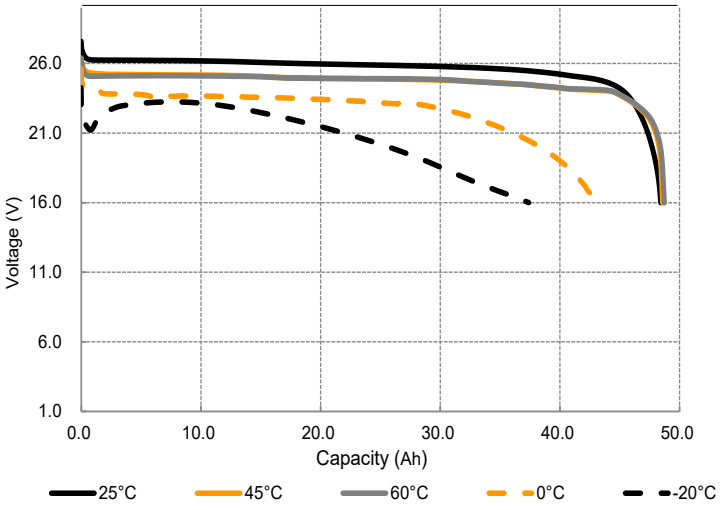
Cycle Life

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



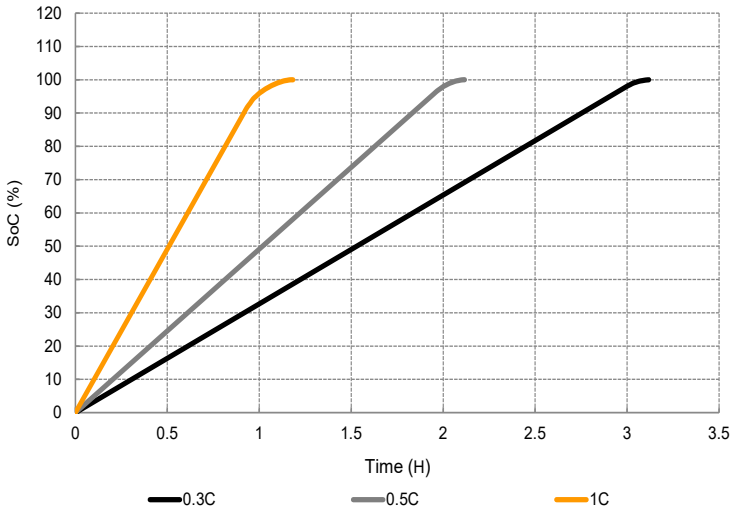
Voltage and Capacity vs. Temperature

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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