

LV-24V50

PROTRXion™ Series | Technical Data Sheet

inVENTUS
POWER



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)

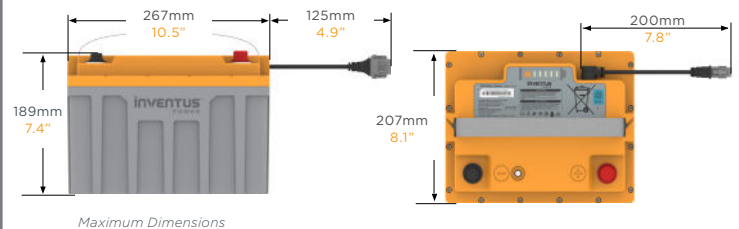
Electrical Specifications

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 | • CE |
| • IEC62619 | • UN38.3 |
| • FCC Class B | • IEC60730 Class B*** |
| • EN 1175 | • 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



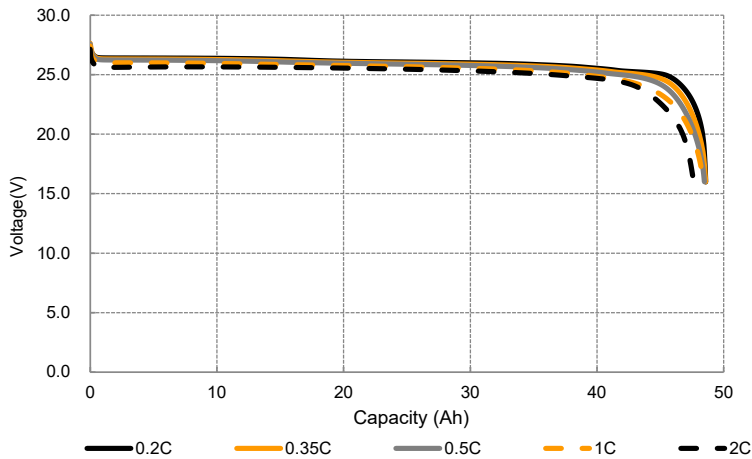
Material Handling



Aerial Work Platform

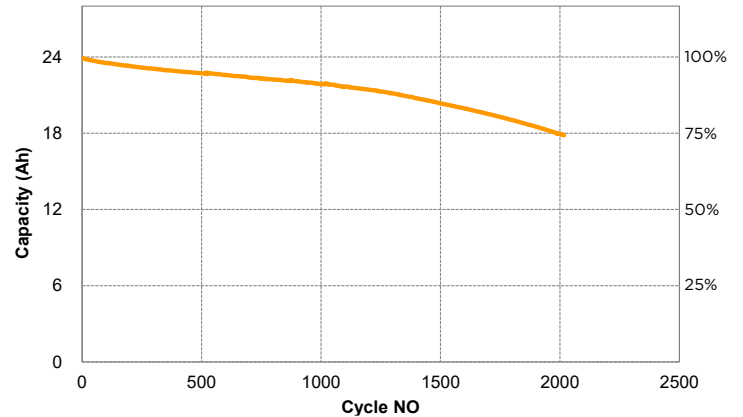
Capacity vs. Discharge Rate

Test condition: Ambient Temperature



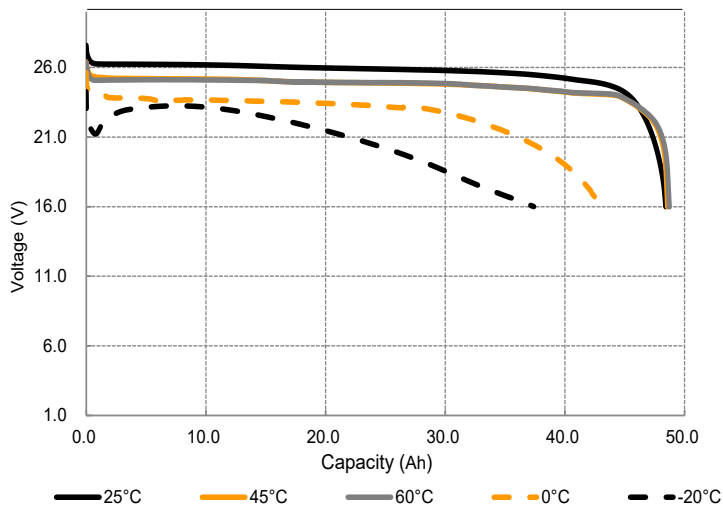
Cycle Life

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



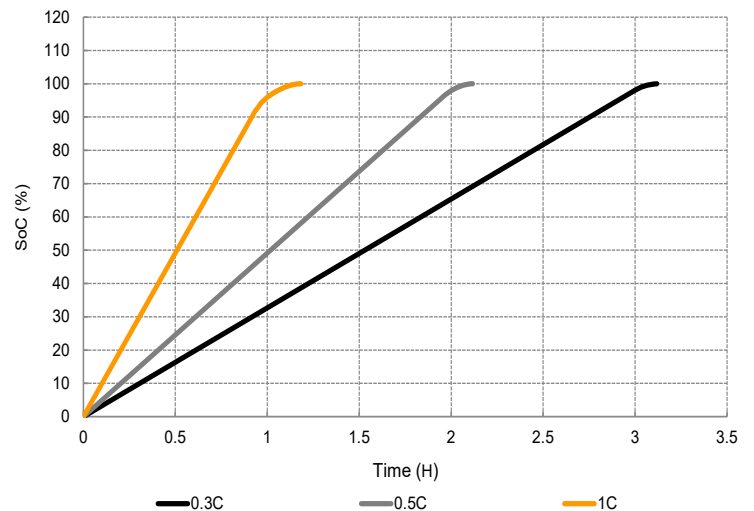
Voltage and Capacity vs. Temperature

Discharge current: 1.0C



Charging Performance

Test condition: Ambient Temperature



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**Request
more Information**

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