

# 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

### 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

### 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%

### 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



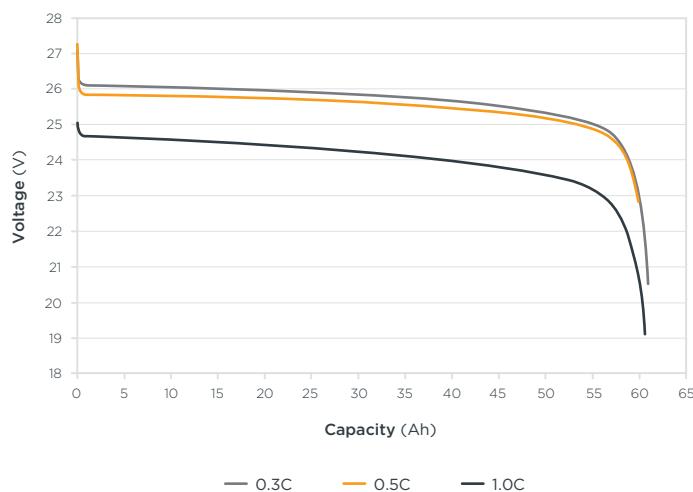
Material Handling



Robotics

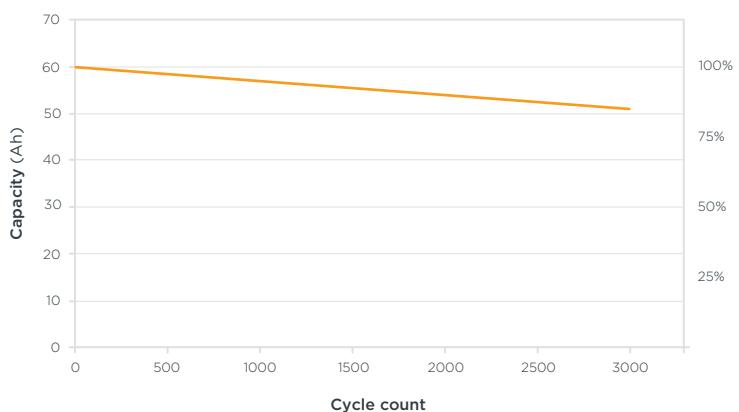
### Capacity vs. Discharge Rate

Test condition: Ambient Temperature



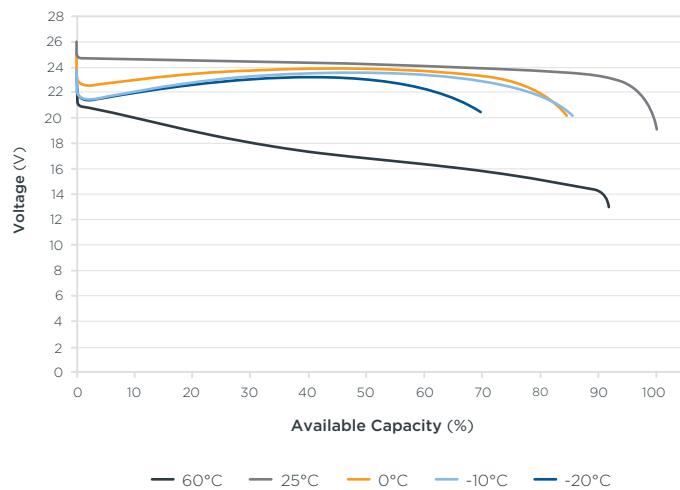
### Cycle Life

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



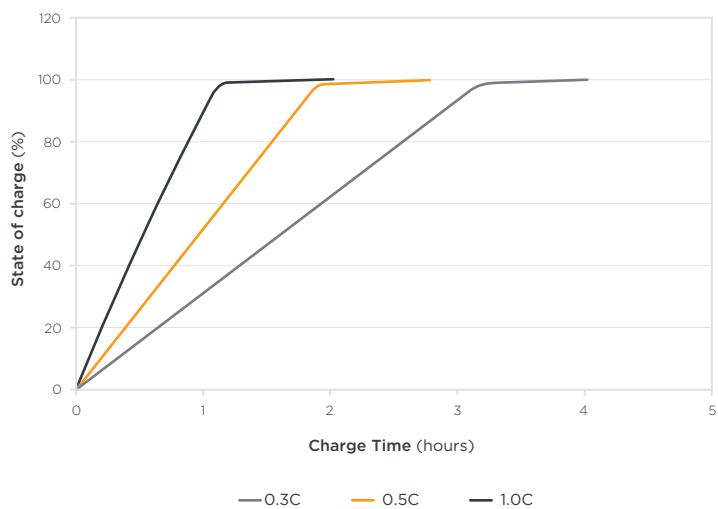
### Voltage and Capacity vs. Temperature

Discharge current: 1.0C



### Charging Performance

Test condition: Ambient Temperature



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Request  
more Information

[inventuspower.com](http://inventuspower.com) | [info@inventuspower.com](mailto:info@inventuspower.com) | +1 877.423.4242