

S-48V60-TRX-HD

PROTRXion™ Series | Technical Data Sheet

inVENTUS[™]
POWER



Automotive grade cells
from top tier manufacturers



Fast charging
within 3 hours



Long shelf life performance
with ship mode



Scalable to increase runtime



Certified to ECE R100/R10
for EU on-road electric vehicle applications



- **Plug & play lead acid replacement**
- **Surge protection** for regenerative braking
- **12V regulated aux power** to run accessories
- **Patented virtual BMS** with Advanced Module Balancing Technology
- **UL2580** Shock & Vibration + Thermal Propagation Mitigation
- **Compatible with many off-the-shelf chargers**

Electrical Specifications

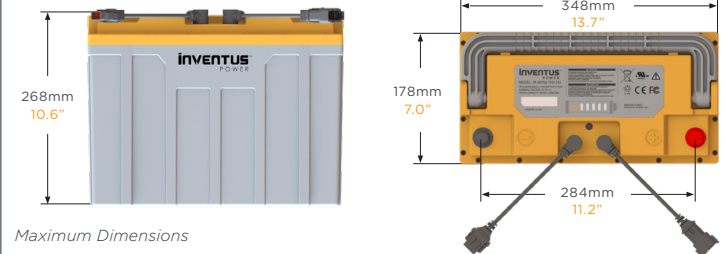
Cell Chemistry	Nickel Cobalt Manganese
Pack Voltage (Nom/Max)	51.7V / 57.4V
Pack Energy	3.2kWh (62Ah)
Specific Energy	168Wh/kg
Continuous Power	6.2kW (120A)
Recommended Charge CCCV	17A / 57.4V
Peak Power (<10sec)	20.4kW (400A)
Cycle Life @ 25°C, 1C discharge rate	2,000 @ 80% DoD
Scalability	Up to 6 packs in parallel

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%

*IP65 if communication cables left unmated

Mechanical Specifications



Maximum Dimensions

BCI Size	Group 5D
Terminal Type (ISO)	M8 (Pos & Neg)
Terminal Torque (Nm)	17 ± 1 (Pos & Neg)
Weight	19.1kg (42.1lbs)
Installation Orientation	Horizontal / Vertical
Ingress Protection Rating	IP67*
Case Flammability Rating	Flame Retardant UL94 V-0

Certifications

- UL2580 (Cell)
- UL2271 (Pack)
- IEC62133 (Cell/Pack)
- IEC62619
- FCC Class B
- CE
- UN38.3
- IEC60730 Class B
- ECE R100
- ECE R10

Market Applications



Light Electric Vehicle



Aerial Work Platform



Robotics



Renewables & Energy Storage

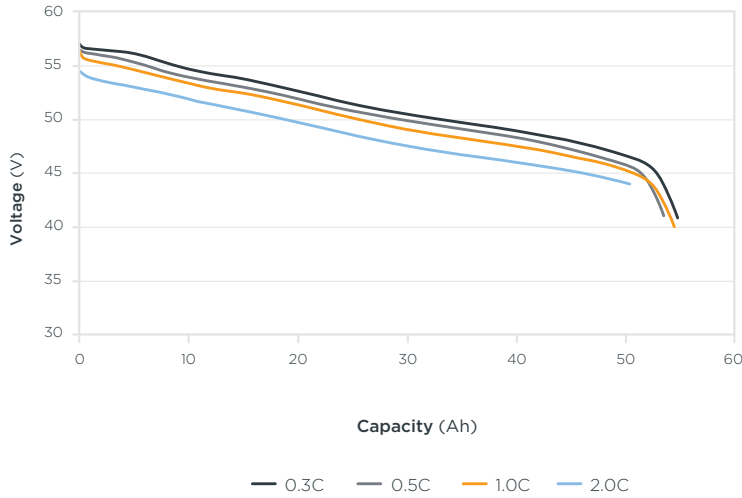
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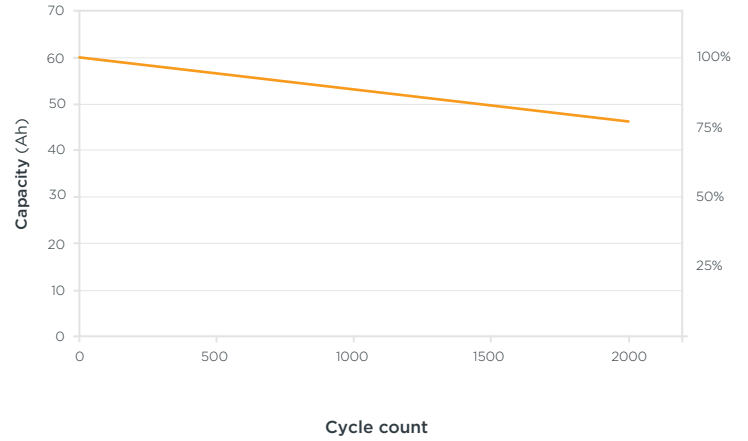
Capacity vs. Discharge Rate

Test condition: Ambient Temperature



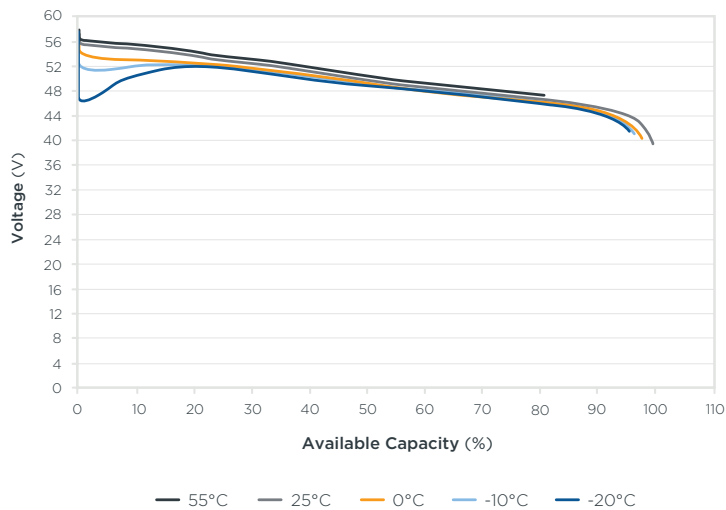
Cycle Life @ 80% DoD

Charge 0.3C, discharge 1C at 25°C



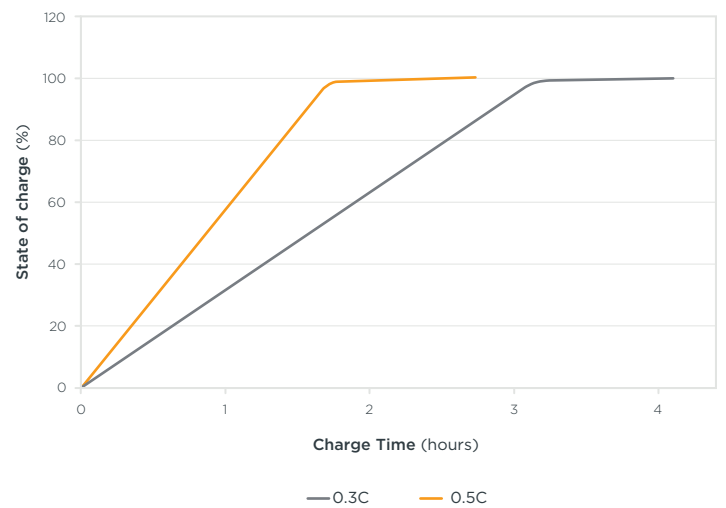
Voltage and Capacity vs. Temperature

Discharge current: 1.0C



Charging Performance

Test condition: Ambient Temperature



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Request
more Information

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