

S-36V80-TRX

PROTRXion™ Series | Technical Data Sheet

inVENTUS
POWER



Automotive grade cells
from top tier manufacturers



Fast charging
within 2 hours



Long shelf life performance
with shutdown mode



Scalable to increase runtime



- **Plug & play lead acid replacement** (terminals always on)
- **Surge protection** for regenerative braking
- **Patented virtual BMS** with Advanced Module Balancing Technology
- **UL2271** Shock & Vibration + Thermal Propagation Mitigation
- **Compatible with many off-the-shelf chargers**

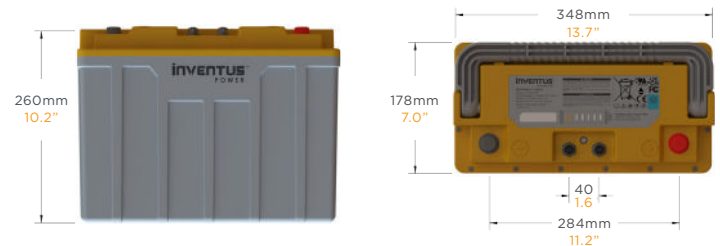
Electrical Specifications

Cell Chemistry	Nickel Cobalt Manganese
Pack Voltage (Nom/Max)	36.9V / 41.0V
Pack Energy (Rated)	3.05kWh (84Ah)
Specific Energy	158Wh/kg
Continuous Power	3.0kW (80A)
Recommended Charge CCCV	26.4A / 41.0V
Peak Power (<10sec)	5.8kW (160A)
Cycle Life (@ 25°C)	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%

Mechanical Specifications



BCI Size	Group 5D
Terminal Type (ISO)	M8 (Neg), M10 (Pos)
Terminal Torque (Nm)	17 ± 1 (Neg), 22 ± 1 (Pos)
Weight	19.3kg (42.5lbs)
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

*IP65 when communication ports left unmated

Market Applications



Professional Cleaning



Light Electric Vehicle



Aerial Work Platform



Material Handling



Robotics



Renewables & Energy Storage

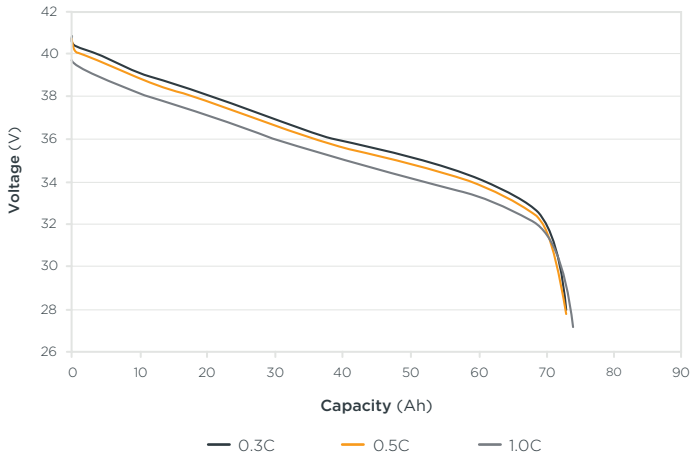
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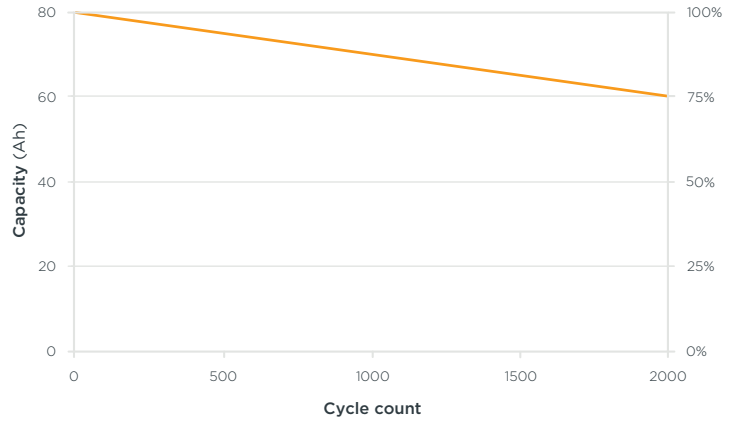
Capacity vs. Discharge Rate

Test condition: Ambient Temperature



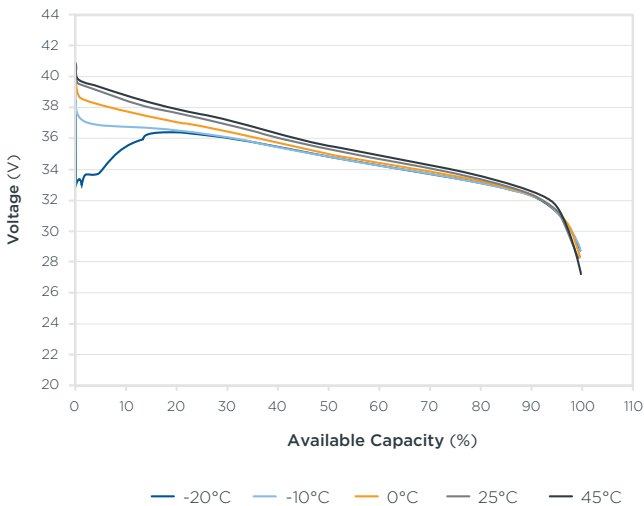
Cycle Life @ 80% DoD

Charge 0.3C, discharge 1C at 25°C



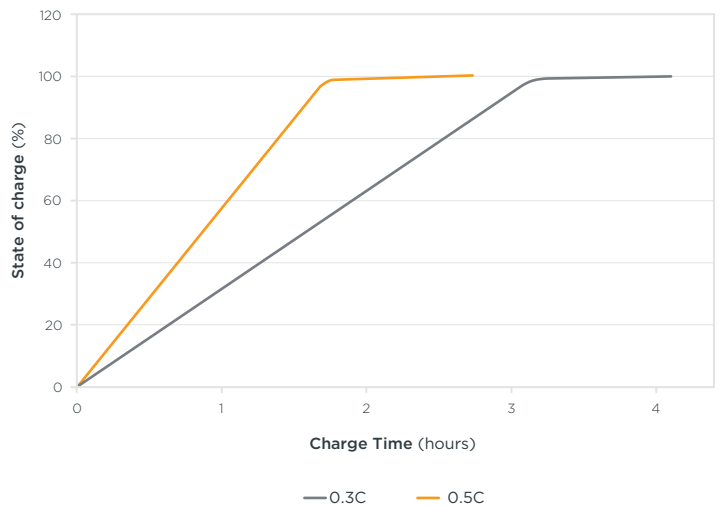
Voltage and Capacity vs. Temperature

Discharge current: 1.0C



Charging Performance

Test condition: Ambient Temperature



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Request
more information

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