

S-12V100-TRX-HD

PROTRXion™ Series | Technical Data Sheet

inventusTM
POWER



Automotive Grade Cells
from top tier manufacturers



Fast charging
within 2 hours



24 month shelf life performance
with shutdown mode



High peak power for cranking
800A Marine Pulse Cranking Amps



- **Plug & Play Lead Acid Replacement**
- **Surge protection** for alternators or stator/rectifiers
- **All-day runtime** of marine electronics and 12V trolling motors
- **NMEA 2000** communication for marine applications
- **Compatible with many off-the-shelf chargers**

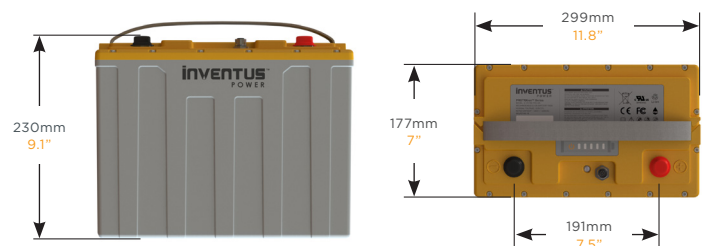
Electrical Specifications

Cell Chemistry	LiFePO4
Pack Voltage (Nom/Max)	12.8V / 14.0V
Pack Energy	1.3kWh (100Ah)
Continuous Power	1.6kW (125A)
Recommended Charge CCCV	50A / 14.0V
Marine Pulse Cranking Amps (≤2sec @ 0°C)	800A
Marine Cranking Amps (MCA) (≤30sec @ 0°C)	305A
Cycle Life (@ 25°C)	3,000 @ 80% DoD

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%

Mechanical Specifications



BCI Size	Group 27
Terminal Type (ISO)	M8
Terminal Torque (Nm)	17 ± 1
Weight	14kg (31lbs)
Installation Orientation	Horizontal / Vertical
Ingress Protection Rating	IP67*
Case Flammability Rating	Flame Retardant UL94 V-0

Certifications

- UL1642 (Cell)
- IEC62133 (Cell/Pack)
- FCC Class B
- CE
- UN38.3

*IP 65 when communication port is left unmated

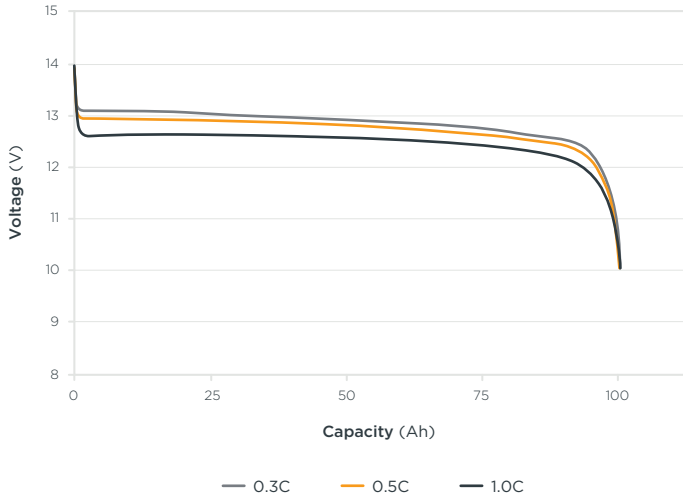
Market Applications



Marine

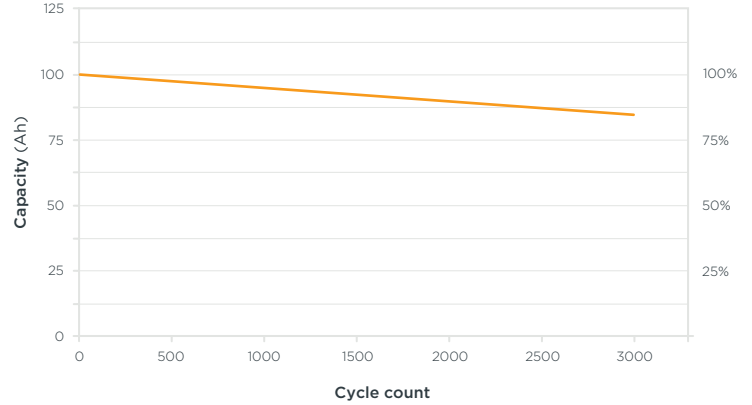
Capacity vs. Discharge Rate

Test condition: Ambient Temperature



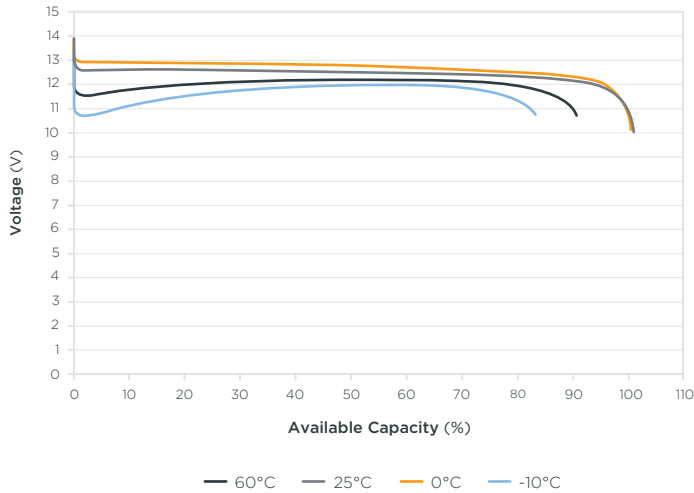
Cycle Life @ 80% DoD

Charge 0.5C, discharge 1C at 25°C



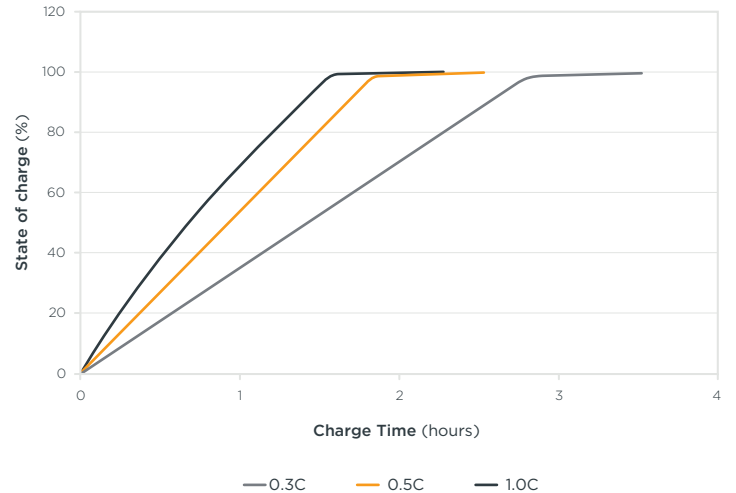
Voltage and Capacity vs. Temperature

Discharge current: 1.0C



Charging Performance

Test condition: Ambient Temperature



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Request more information

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