

# HV-24V105-TRX

PROTRXion™ HV Series | Data Sheet

**inVENTUS™**  
POWER



**Automotive Grade**  
prismatic cells



**Fast charging**  
within 1 hour



**Extended shelf life**  
with shutdown mode



**UL2580** shock &  
vibration tested



BMS designed to  
**ISO26262 ASIL C**



Designed &  
Engineered in  
the **USA**

- **Battery System Scalability**  
up to 600kWh
- **J1772** Charger  
Communications
- **Advanced Cell / Module  
Balancing** with fast voltage  
and current measurements
- **Diagnostic Reporting**  
(CANopen / J1939DA)
- **Intelligent Voltage Sensing**  
at cell / module level
- Supported by Inventus  
Power's proprietary **Power  
Distribution Module (PDM)**

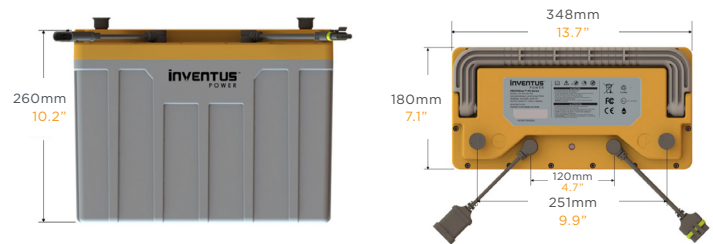
## Electrical Specifications

Cell Chemistry	LiFePO4
Pack Voltage (Nom/Max)	25.6V / 28.8V
Pack Energy	2.7kWh (105A)
Specific Energy	122 Wh/kg
Continuous Power	3.8kW (150A)
Charging CCCV	50A / 28V
Peak Power (<30sec)	5.8kW (250A)
Cycle Life (@ 25°C)	3,000 @ 80% DoD
Scalability	Up to 22 packs in series / parallel

## Operational Specifications

Charge Temp	0°C to 45°C -35°C to 55°C (w/ heater)
Discharge Temp	-20°C to 55°C -35°C to 55°C (w/ heater)
Storage Temp	-20°C to 55°C
Humidity (Operating)	5% to 95%
Humidity (Storage)	<70%

## Mechanical Specifications



BCI Size	Group 5D
Connector Type	Amphenol 8mm Surlok Plus (Power) Tyco 5-pin Super Seal (Signal)
Weight	22kg (48lbs)
Installation Orientation	Horizontal / Vertical
Ingress Protection Rating	IP67
Case Flammability Rating	Flame Retardant UL94 V-0

## Certifications

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

NOTE: Please contact [info@inventuspower.com](mailto:info@inventuspower.com) to obtain the PROTRXion™ HV User Guide for proper installation and handling.

## Market Applications



Professional  
Cleaning



Light Electric  
Vehicle



Material  
Handling



Renewables &  
Energy Storage



Construction