

# HV-24V105

PROTRXion™ HV Series | Technical Data Sheet

**inVENTUS**  
POWER



**Automotive grade**  
prismatic cells



**Fast charging**  
within 2 hour



**Extended shelf life**  
with sleep mode



**UL2580** shock &  
vibration tested



BMS designed to  
**ISO26262 ASIL B**



- **Battery System Scalability**  
up to 258kWh
- **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 / 28.0V
Pack Energy	2.7kWh (105Ah)
Specific Energy	122 Wh/kg
Continuous Power	3.0kW (118A)
Charging CCCV	52.5A / 28.0V
Peak Power (<60 sec)	7.7kW (299A)
Cycle Life (@ 25°C)	2,500
Scalability*	Up to 32 battery modules

## Operational Specifications

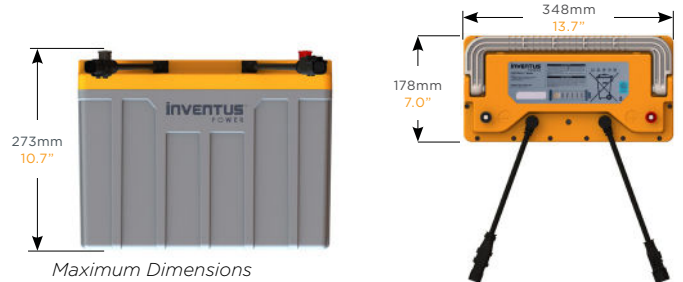
Charge Temp	0°C to 55°C -35°C to 55°C (w/ heater)
Discharge Temp	-20°C to 55°C -35°C to 55°C (w/ heater)
Storage Temp	-20°C to 55°C
Humidity (Operating)	5% to 95%
Humidity (Storage)	<70%

\*Scalability will be limited by PDM

\*\*IP65 when connectors are not mated

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## Mechanical Specifications



BCI Size	Custom
Connector Type	Amphenol 8mm Surlok Plus (Power) Molex 6-pin MX150 series (Signal) Chogori 3-pin Middle series (Heater)
Weight	22kg (48lbs)
Installation Orientation	Horizontal / Vertical
Ingress Protection Rating	IP67
Case Flammability Rating	Flame Retardant UL94 V-0

## Certifications

- See HV-PDM-450 TDS for list of system certifications

## Market Applications



Light Electric Vehicle



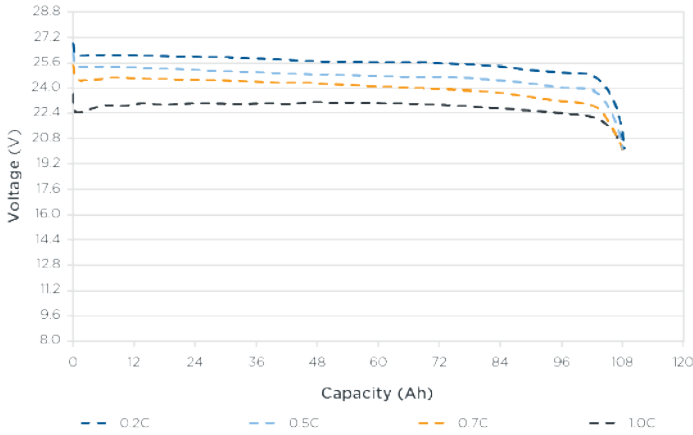
Material Handling



Construction

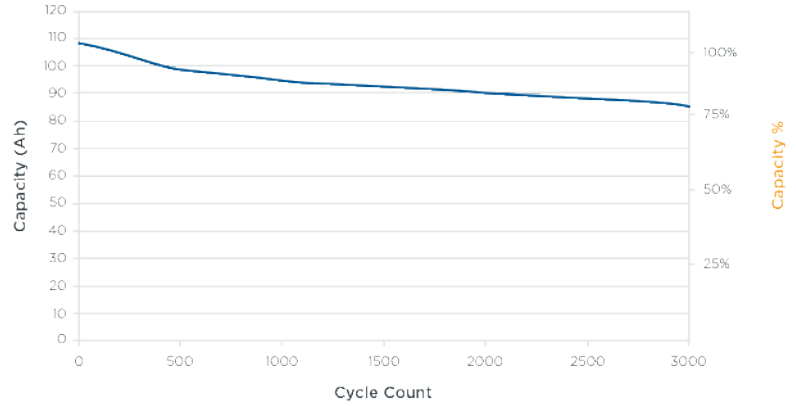
### Capacity vs Discharge Current

Test Condition: Ambient Temperature



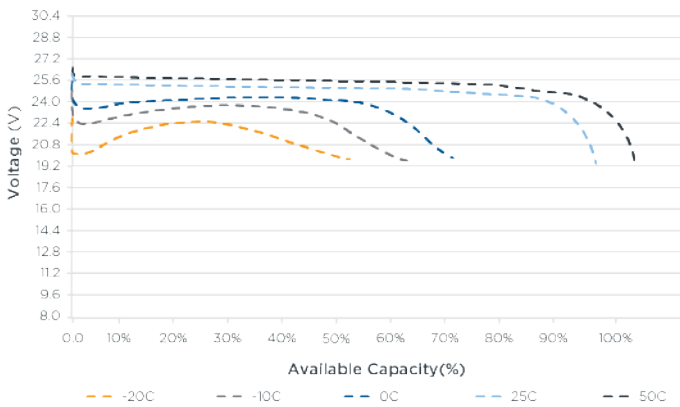
### Cycle Life

Charge 0.5C, Discharge 1C at 25°C



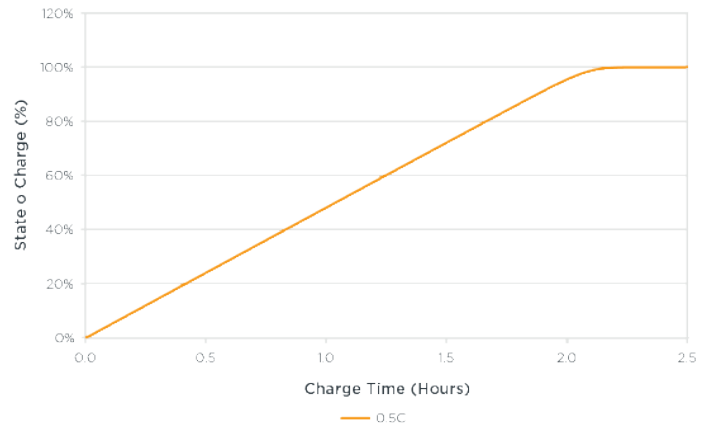
### Capacity vs. Temperature

Discharge Current: 1.0C



### Charge 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