

HV-PDM-450

PROTRXion™ HV Series | Technical Data Sheet

inVENTUS
POWER



Scalable to support more systems in parallel



Intelligent monitoring for multiple strings of battery packs



Designed to meet ISO 26262 (ASIL C)



IP67 protection against water and dust



Supports passive or active heating and cooling



- BMS can support **32 battery modules and up to 4 battery systems in parallel**
- **J1772 capable** with DC-DC fast charging
- **Intelligent diagnostics** to report battery faults and status
- **Insulation protection and detection**
- **HVIL loop and current sensors** for safety

Product Specifications

Operating Voltage Range	24 - 450VDC
Operating Current Range (Contin. @25°C)	1 - 350A (cont.)
Max Power Range (@25°C)	405kW (900A for 10 secs)
DC to DC Output (optional)	12V (60W max.)
Current Accuracy (@25°C)	± 1.0% up to 900A
Voltage Accuracy (@25°C)	± 0.8% up to 450V
Inrush Current Limiter (Pre-charge)	500W 0.5sec. 10Ω to 50Ω Pre-charge resistor
Communication	CAN 2.0B CANopen J1939
Safety Detection	Overcharge Over-discharge Temperature Isolation Fault Detection Cell Fault Detection Safety Fuse

Mechanical Specifications

Shock & Vibration	UL 2580, ISO16750, SAE J2380
Ingress Protection	IP67
Max Dimensions (L x W x H)	296.5 x 249.0 x 101.5 mm 11.7 x 9.8 x 4.00 in
Weight	19.8 lbs (9.0 kg)

Operational Specifications

Operating Temperature	-35°C to 60°C
Storage Temperature	-40°C to 85°C
Humidity	5 to 85%

System Certifications & Standards

- UN38.3
- CE
- UL 991
- UL 1998
- UKCA
- IEC62619
- UL2580 (cell)
- UL 2271
- ISO 7637
- EN60664
- ISO 16750

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**Request
more Information**

inventuspower.com | info@inventuspower.com | +1 877.423.4242

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