M-24V80-TRX

PROTRXion Series | Data Sheet



Key Benefits

- Fast charging within 3hrs to increase productivity
- Long shelf life performance with shutdown mode
- Cold temperature functionality
 (-30°C) with optional integrated heater
- · System fault mitigation protection
- CANopen / J1939 communication
- Compatible with many off-the-shelf industrial chargers



Market Applications

Electrical Specifications 25.6V / 28V Pack Voltage (Nom/Max) Pack Energy 2.05kWh (80Ah) Specific Energy 114Wh/kg Continuous Power 3.84kW (150A) Recommended Charge CCCV 40A / 28V Peak Power (<30secs) 5.12kW (200A) Cycle Life (@ 25°C) 3,000 @ 80% DoD Scalability Up to 15 packs in parallel

Mechanical Specifications		
BCI Size	Group 5D	
Model	M-24V80-TRX	
Cell Chemistry	LiFePO4	
Terminal Type (ISO)	M8 (Neg), M10 (Pos)	
Dimensions (LxWxH)	348mm x 178mm x 260mm (13.7" x 7.00" x 10.24")	
Weight	18kg (40lbs)	
Installation Orientation	Horizontal / Vertical	
Ingress Protection Rating	IP65	
Case Flammability Rating	Flame Retardant UL94 V-0	



Professional Cleaning



Aerial Work Platform



Light Electric Vehicle



Material Handling



Robotics



Renewables & Energy Storage

Operational Specifications		
Charge Temp	0°C to 45°C -20°C to 45°C (w/ heater)	
Discharge Temp	-20 °C to 55 °C -30 °C to 55 °C (w/ heater)	
Storage Temp	-20°C to 45°C	
Humidity (Operating)	5% to 95%	
Humidity (Storage)	<70%	

NOTE: Please contact info@inventuspower.com to obtain the PROTRXion User Guide for proper installation and handling.



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Battery System Intelligence

- Reverse polarity & short circuit protection
- BMS certified to functional safety standard UL/IEC 60730-1
- Advanced cell & pack module balancing
- Easy system integration (automated master/ slave detection)
- Battery LED state of charge indicator
- Configurable communication speed from 125kbps up to 1Mbps

Certifications

- UL1642 (Cell)
- FCC Class B
- **UL2271 (Pack)**
- CF
- IEC62133 (Cell/Pack)
- UN38.3
- IEC62619



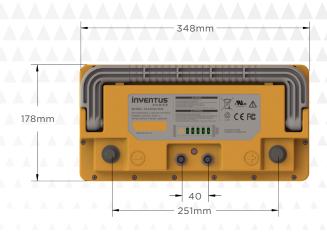




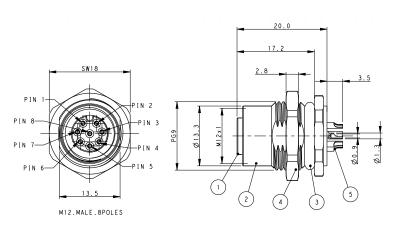








TE M12 Connector Part No. T4131012081-000



Connector Pin Definition		
Pin #	Symbol	Description
1	VCANH	CAN High (System)
2	VCANL	CAN Low (System)
3	VWAKE	Wake up input for discharging
4	VGND	Ground reference
5	VINTLK	Interlock input for charging
6	VCANH_BATT	CAN High (Battery)
7	VCANL_BATT	CAN Low (Battery)
8	VSUPPLY_24V	Unregulated 24V output