

M-48V60-TRX

PROTRXion™ Series | Data Sheet

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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



Designed & Engineered in the **USA**

Market Applications



Professional Cleaning



Material Handling



Aerial Work Platform



Robotics



Light Electric Vehicle



Renewables & Energy Storage

Electrical Specifications

Pack Voltage (Nom/Max)	50.8V / 58V
Pack Energy	3.1kWh (60Ah)
Specific Energy	165Wh/kg
Continuous Power	3.1kW (60A)
Recommended Charge CCCV	20A / 58V
Peak Power (<30secs)	7.1kW (140A)
Cycle Life (@ 25°C)	2,000 @ 80% DoD
Scalability	Up to 10 packs in parallel

Mechanical Specifications

BCI Size	Group 5D
Model	M-48V60-TRX
Cell Chemistry	Nickel Cobalt Manganese
Terminal Type (ISO)	M8 (Neg), M10 (Pos)
Dimensions (LxWxH)	348mm x 178mm x 260mm (13.7" x 7.00" x 10.24")
Weight	18.8kg (41.4lbs)
Installation Orientation	Horizontal / Vertical
Ingress Protection Rating	IP65
Case Flammability Rating	Flame Retardant UL94 V-0

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 55°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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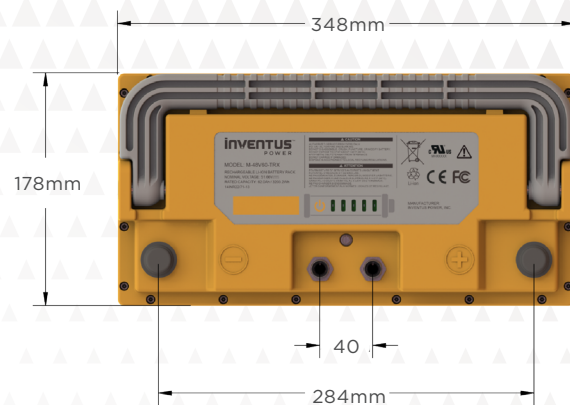
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Battery System Intelligence

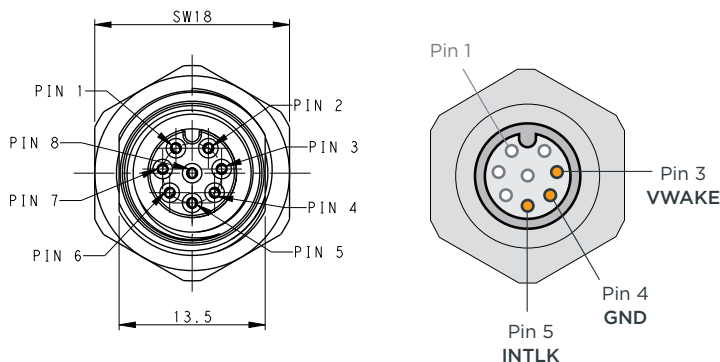
- Reverse polarity & short circuit protection
- BMS certified to functional safety standard UL/IEC 60730-1
- Advanced cell & pack module balancing
- Easy system integration (automated master/slave detection)
- Battery LED state of charge indicator
- Configurable communication speed from 125kbps up to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

Certifications

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



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	VSUPPLY	Aux Power Supply (15V, <15mA limit)
7	VCANL_BATT	CAN Low (Battery)
8	VCANH_BATT	CAN High (Battery)

M-48V60-2021-05-01