

PowerTrac™

Battery Data Logger

DT Series

The PowerTrac DT Series is a battery diagnostics tool developed specifically to meet the needs of industrial and motive battery systems. The new battery monitor tracks and logs various battery performance data including battery voltage, temperature, current, and amp-hours of charge and discharge. The plug and play device requires no installation. The PowerTrac DT is equipped with an infrared (IR) port for wireless data transfer via PDA devices, such as a Palm Pilot.



Advantages:

- Compact size
- Fully programmable
- Plug and Play operation

Applications:

- Industrial electric vehicles:
 - Electric forklift trucks
 - Electric ground support equipment (GSEs)
- Neighborhood electric vehicles

FEATURES & BENEFITS

❖ Monitors and Logs Critical Battery Performance Data

The PowerTrac DT tracks and logs critical battery performance data including:

- Battery voltage, battery current, and temperature
- Charge and discharge Amp-Hours
- Charge and discharge events, including:
 - ◆ Event type (charge/discharge), and event number
 - ◆ Start time, and finish times
 - ◆ Minimum and maximum voltages and time stamps
 - ◆ Maximum current and temperature and time stamps
 - ◆ Event Amp-Hours charge/discharge

❖ Selects and Sizes Batteries Precisely

The PowerTrac DT allows users to select and size the proper battery for a given application. The amp-hours of discharge as well as the various voltage and current data saved makes selecting the proper amp-hour battery a breeze.

❖ Tracks and Identifies Battery Problems

With the PowerTrac DT, battery problems can be easily tracked, identified, and solved. The unit can be installed in line with the battery connector and left in for a test period to collect data. All critical charge, discharge, and open event data is logged and saved in non-volatile on board memory for later download. Data is not lost when the unit is disconnected.

❖ Wireless Data Transfer and Advanced User Interface

The PowerTrac DT incorporates wireless data transfer via an integrated IR port as well as advanced Palm and Windows software interfaces. Programming the unit and downloading and viewing data is done with the few taps on the Palm screen.

For further information please visit our website at www.powerdesigners.com

or contact PowerDesigners, LLC at +1-608-231-0450.

PowerTrac DT Product Specifications

SPECIFICATIONS	PTDT 12-84V
Nominal Battery Voltage Rating	12V – 84V
Operational Voltage Range	10V – 120V
Voltage Resolution	± 50mV
Operating Temperature Range	-25°C – 60°C
Temperature Resolution	± 1.0°C
Operating Current Draw	< 50mA at 12V
Current Resolution	± 1%
Interface	IR port
Data Storage	➤ 128k (~6 months or 180 days at 15 events / day if not cleared)
Battery Backup	Coin-type lithium cell
Protection	➤ Over Voltage ➤ Reverse Polarity Protection
Current Shunt	50mV / 1000A shunt
Connector	SB 350 keyless
Dimensions	5.5"x2.0"x 0.815"
Packaging	UL 94V-0

Product Ordering Information

Part Number	Package Content
PTDT 12-84V	<ol style="list-style-type: none"> 1. PowerTrac DT unit 2. Plastic case 3. Installation CD with Palm and Windows software 4. User's Manual
PTDT 12-84V-P	<ol style="list-style-type: none"> 1. PowerTrac DT unit 2. Plastic case 3. Installation CD with Palm and Windows software 4. User's Manual 5. Palm Device with Installation CD



PowerTrac DT Package