

# PowerTrac DT<sup>3</sup>

## CHARGING SOLUTION DIAGNOSTIC TOOL

### *Monitors and Logs Critical Battery Performance Data*

#### **Features**

- + Plug & play operation
- + Wireless data transfer with superior microprocessor controls
- + Easy installation
- + Compatible with a wide array of material handling electric equipment
- + Tracks battery performance
- + Select and size batteries properly
- + Non volatile memory (no data loss after disconnection)
- + One click reporting and charting
- + Monitor daily energy usage over a short period of time



The PowerTrac DT<sup>3</sup> is a high performance, wireless electronic diagnostics tool that monitors and logs material handling vehicle performance over a short period of time. The PowerTrac DT<sup>3</sup> allows users to select and size batteries for evaluating electric vehicle applications and equipment.

The PowerTrac DT<sup>3</sup> records the vehicles ampere-hours (Ahr) during the time the PowerTrac DT<sup>3</sup> is installed. The PowerTrac DT<sup>3</sup> can help you determine how many batteries you need, why batteries might not be lasting as long as they should and if opportunity or fast charging are a better fit for your facility. The PowerTrac DT<sup>3</sup> helps you determine the best battery/charging solution based on your power study data.

The new PowerTrac DT<sup>3</sup> is more compact, less invasive, and easier to install. The PowerTrac DT<sup>3</sup> is a plug-and-play device that is easy to install, which makes it quite easy to use with existing battery systems. PowerTrac DT<sup>3</sup> is a real-time data logging system that tracks battery activity during the short-time the unit is plugged into the battery. Once disconnected the data is stored in the non volatile memory for access at a later date.

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

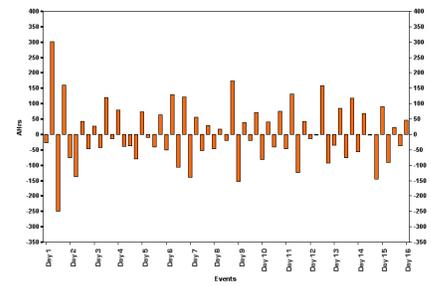
- + Instantaneous battery voltage, battery current, and temperature
- + Charge and discharge Amp-Hours since installation and per event
- + Charge and discharge events, including:
  - Event type (charge/discharge/open)
  - Event start time and duration
  - Minimum and maximum voltages with time stamps
  - Maximum current and temperature with time stamps
  - Event Amp-Hours of charge/discharge
  - Event end voltage (30 second average)
  - Over/under voltage, over current & over temperature alarms

### Typical reports and charts

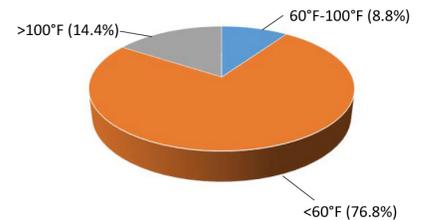
- + "Daily" Ahrs Used and Replaced
- + Log of All Charge/Discharge Cycles
- + Battery Assessment
- + End of Charge/Discharge Voltage
- + Ahrs of Charge/Discharge
- + Maximum Charge/Discharge Temperature
- + Daily Energy Usage



### Example reports and charts



**Battery Amp-Hour  
(Charge & Discharge)**



**Battery Temperature Distribution**

## PowerTrac DT3 Specifications

Models	PTDT3
Current Monitoring	Hall Effect Sensing
Nominal Battery Voltage	24V-84V
Operating Voltage	18V- 120V
Bi-Directional Current Measurement	+/- 500A typical 1A resolution
Voltage Accuracy	0.1V
Real Time Clock	Time keeping and stamping of data
Operating Temperature	-25°C to + 60°C (-13°F to +140°F)
Dimensions	4.25"L x 1.5"W x .6"H
Communication Interface	900Mhz Industrial Wireless
Data Storage	10,000 events
Data Collection	Upload data to PC via PowerTrac Link*
Wireless Range	Up to 150'
Packaging	Water and acid resistant
Power Consumption	1/2 Watt nominal
Protection	Internal fuse and external in-line fuse Reverse Polarity Protection

\*PowerTrac Link sold separately

# Your Complete Power Solution Provider



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