

PowerTrac™

Battery Data Logger

SP Series



The PowerTrac SP Series is a battery-monitoring system 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, battery temperature, and battery current. A conventional current shunt is used to provide continuous battery current sensing. The PowerTrac SP is equipped with an infrared (IR) port for wireless interface via IrDA ports and PDA devices, such as a Palm Pilot, and optional RS-232 ports for PC interface.



Advantages:

- Compact size
- High performance
- Fully programmable

Applications:

- Industrial electric vehicles (Forklift trucks, ground support equipment)
- Stationary / Backup battery systems

FEATURES & BENEFITS

❖ Monitors and Logs Critical Battery Performance Data

The PowerTrac SP 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
 - ◆ Start voltage and time stamp
 - ◆ Finish voltage and time stamp
 - ◆ Maximum current and time stamp
 - ◆ Event Amp-Hours charge/discharge
 - ◆ Total charge and discharge Amp-Hours since installation
 - ◆ Fault events (OV, OT, OC) and time stamp
 - ◆ Maximum temperature and time stamp

❖ Advanced Communications and User Interfaces

The PowerTrac SP incorporates advanced communications and user interfaces including an IR port, an optional RS-232 port, Windows GUI and Palm OS software interfaces.

❖ Tracks Battery Performance and Manages Fleets

With the on-board non-volatile memory, PowerTrac tracks battery performance over the life of the battery. A unique battery ID can be programmed to track individual battery performance as well as manage fleet operations.

❖ Schedules Maintenance Operations


The advanced user interface allows fleet managers to oversee and schedule maintenance operations as well as predict battery replacements.

For further information and additional technical data sheets, please visit our website at www.powerdesigners.com or contact PowerDesigners, LLC at +1.608.231.0450

PowerTrac SP Product Specifications

SPECIFICATIONS	PTSP 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	<ul style="list-style-type: none"> ➤ IR port ➤ RS232 (optional)
Data Storage	<ul style="list-style-type: none"> ➤ 128k (~6 months or 180 days at 15 events / day)
Battery Backup	Coin-type lithium cell
Protection	<ul style="list-style-type: none"> ➤ Over Voltage ➤ Reverse Polarity Protection
Current Shunt	Standard 50mV shunt (500A shunt optional)
MTBF	75,000 hrs (>8 years)
Dimensions	5.5"x2.0"x 0.815"
Packaging	<ul style="list-style-type: none"> ➤ Sealed ➤ Splash Proof ➤ UL 94V-0

Shunt Ordering Information

Part Number	Specifications	
PTSSL-500A	<ul style="list-style-type: none"> ➤ 500A / 50mV ➤ Bolt-on type shunt ➤ For sealed batteries with bolted-on intercell connectors 	
PTSFL-500A	<ul style="list-style-type: none"> ➤ 500A / 50mV ➤ Clamp-on type shunt ➤ For flooded batteries with soldered intercell connectors 	