PowerTrac™
Battery Data Logger
SP+ Series

BATTERY DATA LOGGER SP SERIES

The Power Trac 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 Power Trac SP is equipped with an infrared (IR) port for wireless interface via IrDA ports and PDA devices, such as a Palm Pilot, optional RS-232 and RS-485 ports for PC interfaces.

Advantages:

- Compact size and weight
- High performance
- Fully programmable

Applications:

- Industrial electric vehicles:
  - Electric forklift trucks
  - Electric ground support equipment (GSEs)
- Stationary / Backup battery systems

FEATURES & BENEFITS

- **Monitors and Logs Critical Battery Performance Data**
  The Power Trac SP tracks and logs critical battery performance data including:
  - Battery voltage, battery current using an external shunt, and battery temperature using an external or internal thermistor
  - Charge and discharge Amp-Hours
  - Charge and discharge events, including:
    - Event type (charge/discharge), and event number
    - Event start time and duration
    - Event start and finish voltages and time stamps
    - Event maximum temperature and time stamp
    - Event Amp-Hours charge/discharge
    - Total charge and discharge Amp-Hours since installation
    - Fault events (OV, OT, OC) and time stamp

- **Advanced Communications and User Interfaces**
  The Power Trac SP incorporates advanced communications and user interfaces including an IR port, optional RS-232 and RS-485 ports, Windows GUI and Palm OS software interfaces.

- **Tracks Battery Performance and Manages Fleets**
  With the on-board non-volatile memory, the Power Trac SP 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.

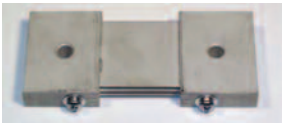
Power Trac SP Product Specifications

SPECIFICATIONS	V25PTSP1284
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, RS-232 (optional), RS-485 (optional)
Data Storage	256k (~5000 discrete events)
Battery Backup	Coin-type lithium cell
Protection	Over Voltage Reverse Polarity Protection
Current Shunt	Standard 50mV shunt (external)
Dimensions	5.5” x 2.0” x 0.815”
Packaging	Sealed, Splash Proof, UL 94V-0

Product Ordering Information

PART NUMBER	DESCRIPTION
V25PTSP1284	Standard Power Trac SP+ unit with external thermistor
V25PTSP1284V485R	Power Trac SP+ with external thermistor and RS485 ready (no auxillary battery cable harness)
V25PTSP1284VIT485	Power Trac SP+ with internal thermistor and RS485 battery cable harness (standard for GNB FUSION™ fast change batteries)

Shunt Ordering Information

Part Number	DESCRIPTION	
V25PTBS750	750A / 50mV Bolt-on type shunt For VRLA batteries with bolt-on intercell connectors	
V25PTWS500G3	500A / 50mV Weld-on type shunt For Flooded batteries with soldered intercell connectors	

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