PSL-BTP-24500 25.6V 50.0 AH

Rechargeable Lithium Battery
PSL BTC – Bluetooth® Enabled Series

BATTERY FEATURES
- Super safe lithium iron phosphate (LiFePO4) chemistry reducing the risk of explosion or combustion due to high impact, over-charging or short circuit situation
- Bluetooth® communication capability for battery status through Power Sonic app
- Battery Management System (BMS) controls the parameters of the battery to provide optimum safety by protecting against over-charging and over-discharging
- BMS enhanced design balances the battery cells, optimizing battery performance
- Delivers twice the power of lead acid batteries, even at high discharge rates, while maintaining high energy capacity
- Faster charging and lower self-discharge
- Up to 10 times more cycles than lead acid batteries
- Compact and only 40% of the weight of comparable lead acid batteries
- Rugged impact resistant ABS case and cover flame retardant to UL94:V0

APPROVALS
- UL 1642 cell certificate
- UN 38.3 Certified
- ISO9001:2015 – Quality management systems

APPLICATIONS
- Medical
- Solar
- Wind
- Mobility
- Data Center
- Transport
- Sports & Recreation
- Utility

PERFORMANCE SPECIFICATIONS
- Nominal Voltage: 25.6 V
- Rated Capacity: 50.0 AH at a Constant Current of 0.33C to 9.2V
- Stored Energy: 1280 Wh
- Cycle Life: 2000 Cycles
- Approximate Weight: 27.06 lbs (12.3 kg)
- Internal Resistance: ≤30.0 mΩ
- Max Charge Current: 50 A
- Max Discharge Current: 50 A
- Charge Cut-off Voltage: 30.4 V
- Recommended Discharge Cut-Off Voltage: 20 V

INTELLIGENT BATTERY MANAGEMENT SYSTEM
The PSL-BTP Series come with an intelligent battery management system which monitors current and voltages during charge and discharge. This protects the battery from over-charge and over-discharge.

The BMS embeds smart balancing algorithms that control all cell voltages in the battery, making sure they are constantly at the same voltage level, optimizing battery capacity.

BLUETOOTH® ENABLED
Monitor the State of Charge (SoC), State of Health (SoH), current, capacity, temperature, number of cycles, and voltage levels of the battery and individual cells from our Power Sonic app.

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**BMS TECHNICAL SPECIFICATIONS**

- **Over-charge**
  - Protection releases when all cell voltages drop below the over-charge release voltage

- **Over-discharge**
  - Protection releases upon charging

- **Over-current**
  - Protection releases upon removing load and charging

**Capacity Remaining (%)**

- **Cycle Life vs. Various Temperature**
  - 0.2C Charge/0.5C Discharge @ 100% DOD

**CHARGING CHARACTERISTICS (0.2A AMP @ 25°C)**

- **Battery Charge**
  - Voltage (V)
  - Charging Capacity (%)

**FURTHER INFORMATION**

Please refer to our website [www.power-sonic.com](http://www.power-sonic.com) or email us at [technical-support@power-sonic.com](mailto:technical-support@power-sonic.com) for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.