PSL-BTP-123000 12.8V 300.0 AH
Rechargeable Lithium Iron Phosphate Battery
PSL BTP – LiFePO4 Bluetooth® Series

TERMINALS: (mm)

DIMENSIONS: inch (mm)

L: 20.47 (520)
L2: 19.40 (493)
W: 10.55 (268)
H: 8.72 (221.6)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

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

APPROVALS
- U.L recognized
- ISO9001:2015 – Quality management systems

PERFORMANCE SPECIFICATIONS
- Nominal Voltage: 12.8 volts
- Rated Capacity: 300.0 AH
- Stored Energy: 3.84KWh
- Cycle Life (@DOD100%): ≤2000 cycles
- Approximate Weight: 83.11 lbs. (37.7kg)
- Internal Resistance at 50% SOC: ≤30.0 milliohms
- Max Charge Current: 200A
- Max Discharge Current: 200A
- Pulse Discharge Current: 450A withstand 5s
- Discharge Cut-Off Voltage: 10.0V
- Protection/Communication: BMS and Bluetooth®
- Series & Parallel Connection: Up to 4 packs can be connected in parallel. CANNOT be connected in series
- Operating Temperature Range:
  - Charge: 32°F (0°C) to 113°F (45°C)
  - Discharge: 4°F (20°C) to 140°F (60°C)
  - Residual Capacity: 59°F (15°C) to 95°F (35°C)
- Case: Flame Retardant ABS Plastic UL94:V-0
- Self-Discharge Rate: ≤3%/month; ≤15%/year
- Reversible Capacity: ≤1.5%/month; ≤8%/year

Power Sonic Chargers: Contact us for information on a suitable charger

To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

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INTELLIGENT BATTERY MANAGEMENT SYSTEM
The PSL-BTP Series come with an intelligent battery management system which can monitor and optimize each cell during charge and discharge. This protects the battery from over-charge and over-discharge.

The BMS embeds smart balancing algorithms that control all the cells in the battery, making sure they are constantly at the same voltage level. The State of Charge (SoC) and State of Health (SoH) of each individual cell.

BUILT IN BLUETOOTH®
Monitor the State of Charge (SoC) and State of Health (SoH) of your battery from your phone or tablet.

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

BMS TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over-charge protection for each cell</td>
<td>3.75±0.05V</td>
</tr>
<tr>
<td>Over-charge release for each cell</td>
<td>3.60±0.04V</td>
</tr>
<tr>
<td>Over-charge release method</td>
<td>Under the release voltage</td>
</tr>
<tr>
<td>Over-discharge protection for each cell</td>
<td>2.50±0.01V</td>
</tr>
<tr>
<td>Over-discharge release for each cell</td>
<td>2.80±0.01V</td>
</tr>
<tr>
<td>Over-discharge release method</td>
<td>Charging recovery</td>
</tr>
<tr>
<td>Over current</td>
<td>210A - 250A</td>
</tr>
<tr>
<td>Protection delay time</td>
<td>7s-9s</td>
</tr>
<tr>
<td>Over current release method</td>
<td>Discharge or auto release after 1min</td>
</tr>
<tr>
<td>Battery temperature</td>
<td></td>
</tr>
<tr>
<td>Charge over temperature</td>
<td>Protection @65±5°C</td>
</tr>
<tr>
<td>Discharge over temperature</td>
<td>Release @50±5°C</td>
</tr>
<tr>
<td>Charge low temperature protection</td>
<td>Protection @10±5°C</td>
</tr>
<tr>
<td>MOSFET over temperature protection</td>
<td>Release @103±10°C</td>
</tr>
<tr>
<td></td>
<td>Release @75±10°C</td>
</tr>
</tbody>
</table>

FURTHER INFORMATION
Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.