PSL-BTP-24500 25.6V 50.0 AH
Rechargeable Lithium Iron Phosphate Battery
PSL BTP – LiFePO4 Bluetooth® Series

TERMINALS: (mm)

DIMENSIONS: inch (mm)

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 25.6 volts
Rated Capacity 50.0 AH
Cycle Life (@DOD100%) ≤2000 cycles
Approximate Weight 27.12 lbs. (12.3kg)
Internal Resistance at 50% SOC ≤30.0 milliohms
Max Charge Current 50A
Max Discharge Current 50A
Pulse Discharge Current 50A withstand 3s
Discharge Cut-Off Voltage 16.0V
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 Recommended -4°F (-20°C) to 140°F (60°C)
59°F (15°C) to 95°F (35°C)
Case Flame Retardant ABS Plastic UL94:V0
Self-Discharge Rate Residual Capacity ≤3%/month; ≤15%/year
Reversible Capacity ≤1.5%/month; ≤8%/year
Power Sonic Chargers Contact us for information on a suitable charger

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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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power-sonic.com
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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.

BUILD 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
• Sports & Recreation
• Transport
• Utility

BMS TECHNICAL SPECIFICATIONS

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<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Over-charge</td>
<td>3.75±0.03V</td>
</tr>
<tr>
<td>Over-charge protection</td>
<td>3.75±0.03V</td>
</tr>
<tr>
<td>Over-charge release method</td>
<td>Under the release voltage</td>
</tr>
<tr>
<td>Over-discharge</td>
<td>2.00±0.05V</td>
</tr>
<tr>
<td>Over-discharge protection</td>
<td>2.00±0.05V</td>
</tr>
<tr>
<td>Over-discharge release</td>
<td>Over the release voltage</td>
</tr>
<tr>
<td>Over-discharge method</td>
<td>Over the release voltage</td>
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<tr>
<td>Over current</td>
<td>200A - 250A</td>
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<td>Protection delay time</td>
<td>50ms-200ms</td>
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<tr>
<td>Over current release method</td>
<td>Release after 30s</td>
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<td>Battery temperature</td>
<td></td>
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<tr>
<td>Charge over temperature</td>
<td>Protection @65±5°C</td>
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<tr>
<td>Charge over temperature</td>
<td>Release @60±5°C</td>
</tr>
<tr>
<td>Discharge over temperature</td>
<td>Protection @66±5°C</td>
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<tr>
<td>Discharge over temperature</td>
<td>Release @60±5°C</td>
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<tr>
<td>Charge low temperature</td>
<td>Protection @-10±5°C</td>
</tr>
<tr>
<td>Pressure</td>
<td>Release @0±5°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.