PSL-BTP-241000 25.6V 100.0 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

DIMENSIONS: inch (mm)

L: 19.03 (483.5)
W: 6.69 (170)
H: 9.48 (241)

GLOBAL HEADQUARTERS
(USA AND INTERNATIONAL EXCLUDING EMEA)
Power-Sonic Corporation
365 Cabela Dr Suite 300,
Reno, Nevada 89523
USA
T: +1 619 661 2020
E: customer-service@power-sonic.com

POWER-SONIC EMEA
(EMEA – EUROPE, MIDDLE EAST AND AFRICA)
Smitspol 4, 3861 RS Nijkerk,
The Netherlands
T NL: +31 33 7410 700
T UK: +44 1268 560 686
T FR: +33 344 32 18 17
E: salesEMEA@power-sonic.com

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.

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

PERFORMANCE SPECIFICATIONS

Nominal Voltage 25.6 V
Rated Capacity 100.0 AH at a Constant Current of 0.33C to 9.2V
Stored Energy (Wh) 2560 Wh
Cycle Life (at 100% DOD) 2000 Cycles
Approximate Weight 54.56 lbs (24.8 kg)
Internal Resistance ≤30.0 mΩ
Max Charge Current 100 A
Max Discharge Current 100 A
Charge Cut-off Voltage 30.4 V
Recommended Discharge Cut-Off Voltage 20 V
Series & Parallel Connection Up to 4 batteries can be connected in parallel, CANNOT be connected in series

Operating Temperature Range
Charge 32°F (0°C) to 113°F (45°C)
Discharge 14°F (-10°C) to 140°F (60°C)
Recommended 59°F (15°C) to 95°F (35°C)

Self-Discharge Rate ≤3%/month

Long Term Storage Charge every 6 months or as soon as OCV is 12.8V (approximately 20% SOC)

Power Sonic Chargers Contact us for information on a suitable charger

Life Expectancy (years) 5 years at one cycle per day

Short Circuit Protection Automatically recover after removal of short
Dimensional Tolerances +/- 0.04 in. (+/- 1mm) for length and width
+/-.08 in. (+/- 2mm) for height dimensions.

Terminals Type M6

To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.
© 2019. Power-Sonic Corporation. All rights reserved. All trademarks are the property of their respective owners.
All data subject to change without notice. E&O.E

Power Sonic
10141 Nielson Way
Reno, NV 89511 USA
T: +1 619 661 2020
E: salesEMEA@power-sonic.com

POWER-SONIC EMEA
(EMEA – EUROPE, MIDDLE EAST AND AFRICA)
Smitspol 4, 3861 RS Nijkerk,
The Netherlands
T NL: +31 33 7410 700
T UK: +44 1268 560 686
T FR: +33 344 32 18 17
E: salesEMEA@power-sonic.com

power-sonic.com
Rev4: 10/19
**BMS TECHNICAL SPECIFICATIONS**

**Over-charge**
- Protection release voltage for each cell: 3.8 V
- Over-charge release voltage for each cell: 3.6 V
- Over-charge release method: Protection releases when all cell voltages drop below the over-charge release voltage.

**Over-discharge**
- Protection release voltage for each cell: 2.4 V
- Over-discharge release voltage for each cell: 2.8 V
- Over-discharge release method: Protection releases upon charging.

**Over current**
- Discharge over current protection: 105-125 A
- Over-current delay time: 15-25 S
- Over current release condition: Protection releases upon removing load and charging.

**Battery temperature**
- Over-temperature protection: 65±5°C
- Release temperature: 50±5°C

**Short circuit protection**
- Function condition: External short circuit
- Short circuit delay time: 200 ms
- Release condition: Protection releases upon removing short circuit and charging.

**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 for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.