



PSL-BT-48320-GC2

Rechargeable Lithium Battery
PSL BT – Bluetooth Series

FEATURES

- Super safe lithium iron phosphate (LiFePO4) chemistry reducing the risk of explosion or combustion due to high impact, over-charging, or short circuit condition
- Battery Management System (BMS) controlling the parameters of the battery to provide optimum safety by protecting against over-charging and over-discharging
- BMS multi-function design balances the battery cells optimizing battery performance
- Delivers twice the power of lead acid batteries (even at high discharge rates) while maintaining constant power
- 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 case

BLUETOOTH® SERIES

Combining proven lithium technology with an intelligent battery management system (BMS), the Power Sonic PSL-BT range delivers a lithium battery that lasts longer, weighs less and charges quicker than the equivalent lead acid battery.

At the heart of every Power Sonic PSL-BT lithium battery is an intelligent BMS that monitors and reacts to multiple voltage, current, and temperature events to maximize performance, battery life, and safety. With its advanced BMS design, the PSL-BT range can be configured with four batteries in series or in parallel connections providing a solution for high voltage or capacity applications.

GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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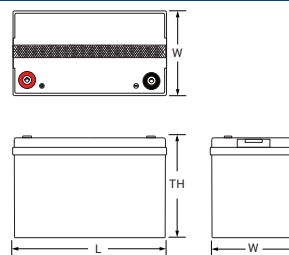
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*PLEASE CONTACT POWER-SONIC TO CONNECT MORE THAN FOUR BATTERIES IN PARALLEL
To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.
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All data subject to change without notice. E&O.E

PERFORMANCE SPECIFICATIONS

| | |
|--|---------------------------|
| Nominal Voltage | 51.2 V |
| Nominal Capacity | 32 Ah |
| Stored Energy | 1638.4 Wh |
| Dimensions | |
| Length (+/-2mm) | 10.25" (259 mm) |
| Width (+/-2mm) | 7.12" (180 mm) |
| Height (+/-2mm) | 10.25" (259 mm) |
| Total Height (+/-4mm) | 11.00" (277 mm) |
| Minimum Weight | 36.3 lbs (16.51 kg) |
| Internal Resistance | TBD mΩ |
| Max Continuous Discharge Current | 90.0 A |
| Charge Cut-off Voltage | 58.4 V |
| Number of Series Cells | 16 |
| Recommended Charge Current | 8.0 A - 16.0 A |
| Recommended Discharge Cut-Off Voltage | 44 V |
| Cycle Charge (Initial Current ≤ 0.25C) | 57.6 V – 58.4 V |
| Cycle Life (@100% Depth of Discharge) | 2000 |
| Series Connection | No Series Connections |
| Parallel Connection | Six Parallel Connections* |
| Operating Temperature | |
| Charge | 0 to 55 °C |
| Discharge | -30 to 55 °C |
| Case | ABS |

DIMENSIONS



TERMINALS:

DUAL M8 Terminal

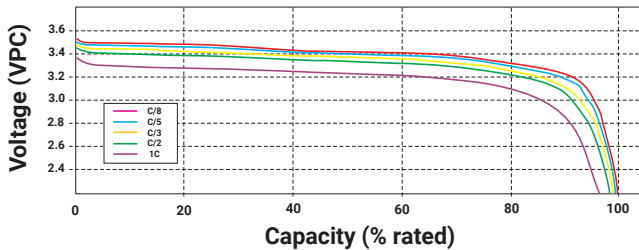




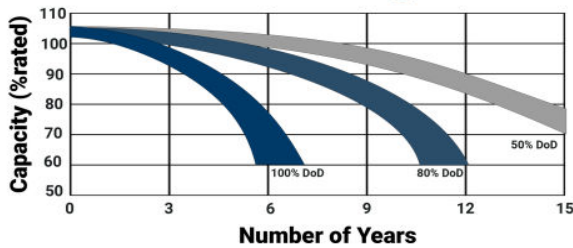
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Rechargeable Lithium Battery
PSL BT – Bluetooth Series

VOLTAGE PROFILES AT VARIOUS DISCHARGE RATES
25°C AMBIENT TEMPERATURE



YEARS OF SERVICE LIFE
ONE CYCLE PER DAY @25°C



CHARGING

Cycle Applications: Apply constant voltage charge at 3.45 – 3.65 volts per cell at 20°C. Initial charging current should be set at less than C/4 Amps. Switch to float charge to avoid overcharging.

“Float” or “Stand-By” Service: Apply constant voltage charge of 3.35 – 3.40 volts per cell at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

APPLICATION

- Golf Cart
- Utilities
- Mobility
- Home Energy
- Sports & Recreation

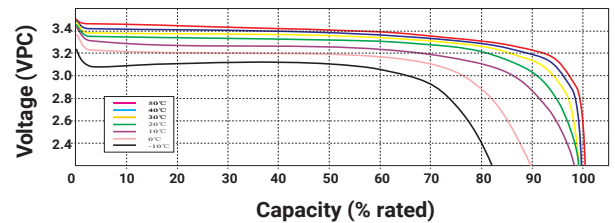
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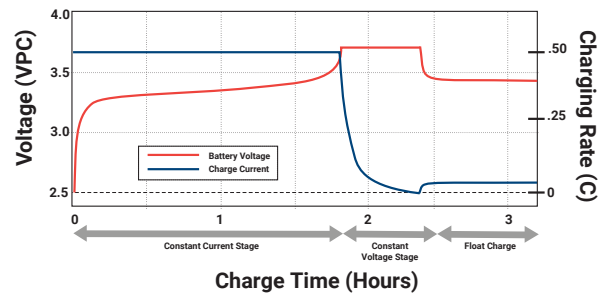
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VOLTAGE PROFILES AT VARIOUS AMBIENT TEMPERATURES
C/2 DISCHARGE RATE



CHARGING CHARACTERISTICS @ C/2 AND 25°C



APPROVALS

- UN 38.3 certified
- IEC 62133 cell certificate
- IP67



FURTHER INFORMATION

Please refer to our website 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.