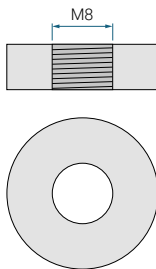




PSL-BTP-121000 12.8V 100.0 AH

Rechargeable Lithium Iron Phosphate Battery
PSL BTP – LiFePO4 Bluetooth® Series

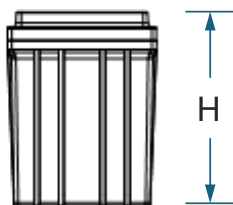
TERMINALS: (mm)



DIMENSIONS: inch (mm)



L: 12.51 (318)
W: 6.51 (165.5)
H: 8.46 (215)



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

CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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POWER-SONIC EUROPE LIMITED (EMEA – EUROPE, MIDDLE EAST AND AFRICA)

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T: +44 (0)1268 560686
F: +44 (0)1268 560902
E: salesEMEA@power-sonic.com

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

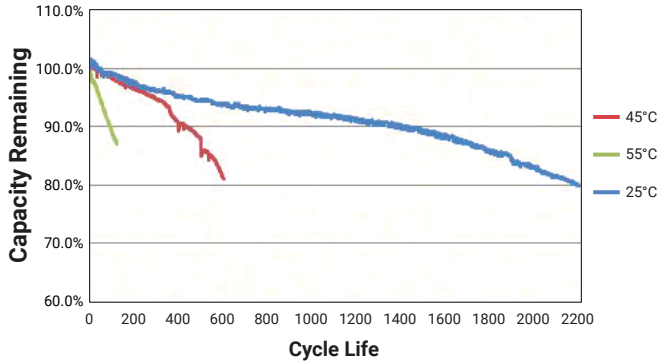
APPROVALS

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

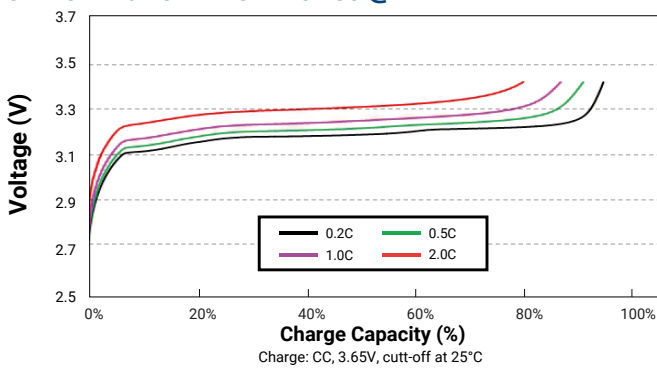
PERFORMANCE SPECIFICATIONS

Nominal Voltage	12.8 volts
Rated Capacity	100.0 AH
Cycle Life (@DOD100%)	≤2000 cycles
Approximate Weight	28.2 lbs. (12.8kg)
Internal Resistance at 50% SOC	≤20.0 milliohms
Max Charge Current	80A
Max Discharge Current	100A
Pulse Discharge Current	300A withstand 3s
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)
Recommended	59°F (15°C) to 95°F (35°C)
Case	Flame Retardant ABS Plastic UL94:V-0
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

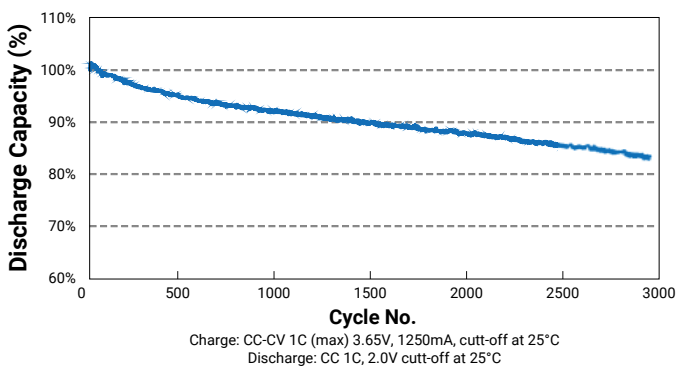
0.5C DISCHARGE CYCLE LIFE CURVE @ DIFFERENT TEMPERATURE



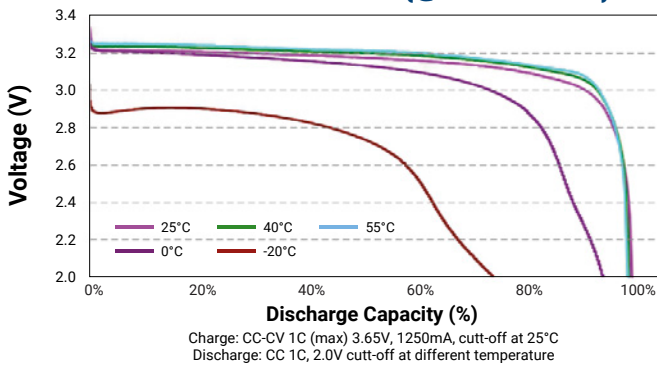
CELL CHARGE CHARACTERISTICS @ RT



CELL CYCLE LIFE CHARACTERISTICS



CELL DISCHARGE CHARACTERISTICS (@ TEMPERATURE)



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PSL-BTP-121000 12.8V 100.0 AH

Rechargeable Lithium Iron Phosphate Battery
PSL BTP – LiFePO4 Bluetooth® Series

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

Over-charge

Over-charge protection for each cell	3.90±0.03V
Over-charge release for each cell	3.60±0.05V
Over-charge release method	Under the release voltage

Over-discharge

Over-discharge protection for each cell	2.00±0.05V
Over-discharge release for each cell	2.30±0.05V
Over-discharge release method	Charging recovery

Over current

Discharge over current protection	300A - 500A
Protection delay time	50ms-200ms
Over current release method	Release after 8s

Battery temperature

Charge low temperature protection	Protection @-10±5°C Release @0±5°C
Battery over temperature	Protection @65±5°C Release @60±5°C

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.