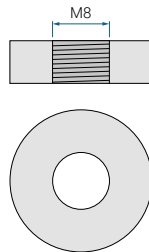




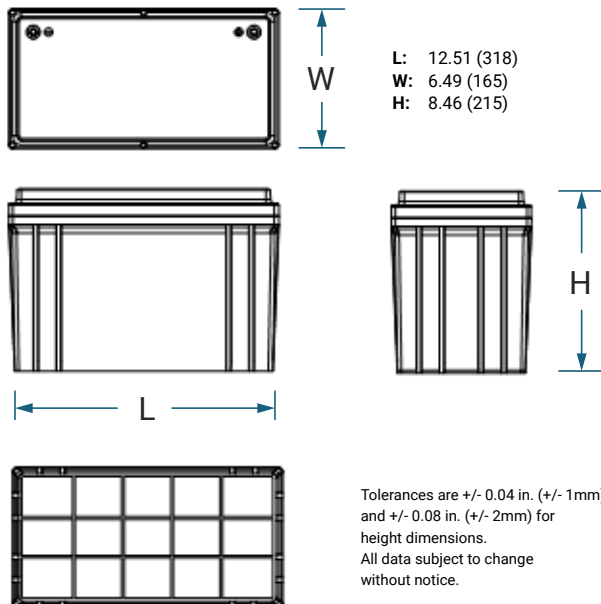
## PSL-BTP-24500 25.6V 50.0 AH

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

### TERMINALS: (mm)



### DIMENSIONS: inch (mm)



### CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

**Power-Sonic Corporation**  
7550 Panasonic Way, San Diego,  
California 92154  
T: +1 (619) 661 2020  
F: +1 (619) 661 3650  
E: customer-service@power-sonic.com

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

3 Buckingham Square,  
Hurricane Way, Wickford,  
Essex SS11 8YQ  
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

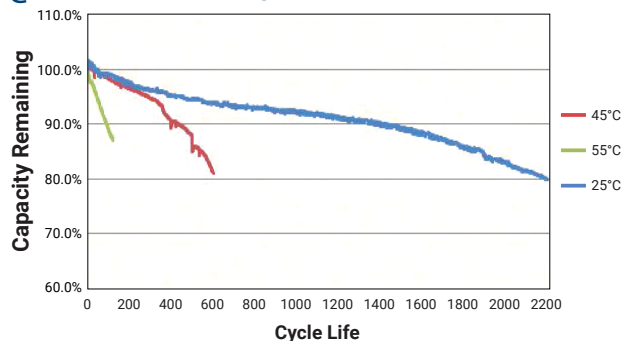
## APPROVALS

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

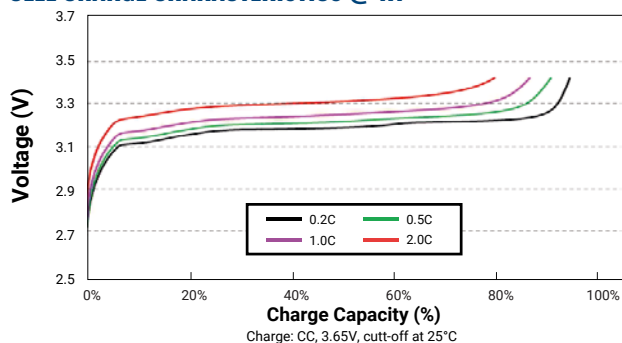
## PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b>	25.6 volts
<b>Rated Capacity</b>	50.0 AH
<b>Cycle Life (@DOD100%)</b>	≤2000 cycles
<b>Approximate Weight</b>	27.12 lbs. (12.3kg)
<b>Internal Resistance at 50% SOC</b>	≤30.0 milliohms
<b>Max Charge Current</b>	50A
<b>Max Discharge Current</b>	50A
<b>Pulse Discharge Current</b>	50A withstand 3s
<b>Discharge Cut-Off Voltage</b>	16.0V
<b>Protection/Communication</b>	BMS and Bluetooth®
<b>Series &amp; Parallel Connection</b>	<b>Up to 4 packs can be connected in parallel. CANNOT be connected in series</b>
<b>Operating Temperature Range</b>	
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)
<b>Case</b>	Flame Retardant ABS Plastic UL94:V-0
<b>Self-Discharge Rate</b>	
Residual Capacity	≤3%/month; ≤15%/year
Reversible Capacity	≤1.5%/month; ≤8%/year
<b>Power Sonic Chargers</b>	Contact us for information on a suitable charger

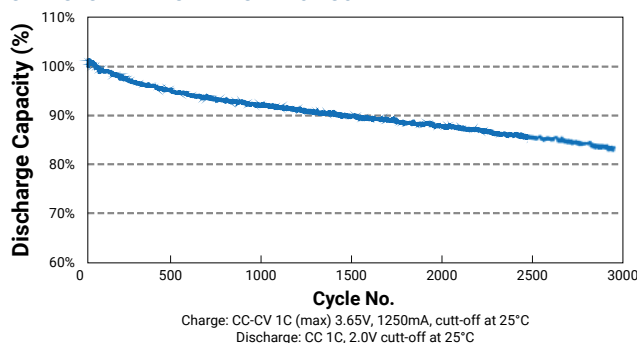
## 0.5C DISCHARGE CYCLE LIFE CURVE @ DIFFERENT TEMPERATURE



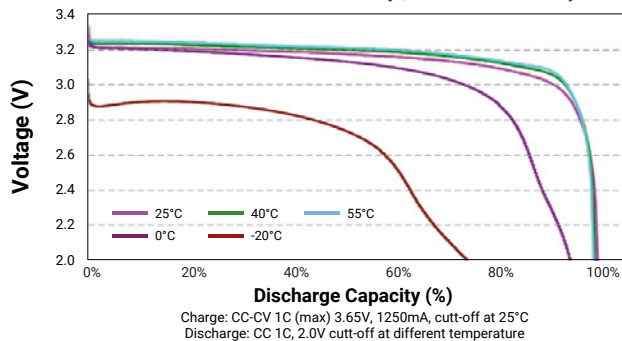
## CELL CHARGE CHARACTERISTICS @ RT



## CELL CYCLE LIFE CHARACTERISTICS



## CELL DISCHARGE CHARACTERISTICS (@ TEMPERATURE)



### CORPORATE HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

**Power-Sonic Corporation**  
7550 Panasonnic Way, San Diego,  
California 92154  
T: +1 (619) 661 2020  
F: +1 (619) 661 3650  
E: customer-service@power-sonic.com

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

3 Buckingham Square,  
Hurricane Way, Wickford,  
Essex SS11 8YQ  
T: +44 (0)1268 560686  
F: +44 (0)1268 560902  
E: salesEMEA@power-sonic.com

## PSL-BTP-24500 25.6V 50.0 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

<b>Over-charge</b>	
Over-charge protection for each cell	3.75±0.03V
Over-charge release for each cell	3.60±0.05V
Over-charge release method	Under the release voltage
<b>Over-discharge</b>	
Over-discharge protection for each cell	2.00±0.05V
Over-discharge release for each cell	2.50±0.05V
Over-discharge release method	Over the release voltage
<b>Over current</b>	
Discharge over current protection	200A - 250A
Protection delay time	50ms-200ms
Over current release method	Release after 30s
<b>Battery temperature</b>	
Charge over temperature	Protection @65±5°C Release @60±5°C
Discharge over temperature	Protection @65±5°C Release @60±5°C
Charge low temperature protection	Protection @-10±5°C Release @0±5°C

### FURTHER INFORMATION

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