PSL-24200 25.6V 22.0 AH
Rechargeable Lithium Iron Phosphate Battery
PSL – LiFePO4 Series

PCM FEATURES
• Balancing function for cells
• Over-current protection
• Over-voltage protection
• Over-discharge protection
• Short-circuit protection

APPROVALS
• U.L recognized
• ISO9001:2015 – Quality management systems
• ETL Approved
• FCC Approved

TERMINALS: (mm)
M6 threaded insert (female-threaded)

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

PERFORMANCE SPECIFICATIONS
Nominal Voltage 25.6 volts
Rated Capacity 22.0 AH
Watt Hour 563
Life Expectation Residual capacity is approximately 60% of rated capacity after 2500 cycle based on standard charge/discharge
Approximate Weight 13.0 lbs. (5.9 kg)
Cell Configuration IFR 18650EC - 1.5AH BS15P
Internal Resistance at 50% SOC <60.0 millihms
Max Continuous Discharge Current at 68°F (20°C) 16A
Protection/Communication PCM
Shelf Life (% of nominal capacity at 68°F (20°C)
1 Month 97%
3 Month 91%
6 Month 85%
Operating Temperature Range
Charge 32°F (0°C) to 122°F (50°C)
Discharge 14°F (-10°C) to 122°F (50°C)
Storage 32°F (0°C) to 86°F (30°C)
Case Flame Retardant ABS Plastic UL94:V-0
Power Sonic Chargers Contact us for information on a suitable charger
Standard Charge/Discharge
Constant Current Charge Voltage Charge CC@0.2C to 14.6V then CV until current drops to 0.05C, Rest 30 min.
Maximum Charging Current 10A
Charging Time with Max Charging Current 2.5 Hours
Standard Discharge Discharge @ 0.2C to 10V
Terminal M6 threaded insert (female-threaded)
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**CHARGING CHARACTERISTICS (0.2C AMP @ 25°C)**

- Voltage (V)
  - 16
  - 14
  - 12
  - 10
- Charging Current (A)
  - 0.20
  - 0.10
  - 0.05
- Charging Capacity (% rated)
  - 0
  - 20
  - 40
  - 60
  - 80
  - 100

**DISCHARGE VOLTAGE PROFILES @ VARIOUS DISCHARGE RATES @ 25°C AMBIENT TEMPERATURES**

- Voltage (V)
  - 14.0
  - 13.6
  - 13.0
  - 12.6
  - 12.0
  - 11.6
  - 11.0
  - 10.6
  - 10.0
- Capacity (% rated)
  - 0
  - 20
  - 40
  - 60
  - 80
  - 100

**CYCLE LIFE PERFORMANCE CURVE @ 25°C**

- Remaining Capacity (%)
  - 100
  - 80
  - 60
  - 40
  - 20
  - 0
- Number of Cycles
  - 200
  - 400
  - 1000
  - 1800
  - 2000

**APPLICATIONS**

- Medical
- Solar
- Wind
- Mobility
- Data Center
- Transport
- Sports & Recreation
- Utility

**CHARGERS**

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities.
Please refer to our website for more information on our switch mode and transformer type chargers.
Please contact our technical department for advice if you have difficulty in locating a suitable charger.

**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.

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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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