



PSL-CP-24250 24V 25AH 645WH LiFePO4

Rechargeable Lithium Battery
PSL-CP – Communication Port 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 60% of the weight of comparable lead acid batteries
- Rugged impact resistant case

COMMUNICATION PORT SERIES

Combining proven lithium technology with an intelligent battery management system (BMS), the Power-Sonic PSL-CP 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-CP 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-CP it is capable of communicating with its application over a hard wired connection. Contact Power-Sonic to learn more about our PSL-CP communication protocols.

GLOBAL HEADQUARTERS (USA AND INTERNATIONAL)

Power Sonic Corporation
365 Cabela Dr, Suite 300
Verdi, Nevada 89439
USA
T: +1 775 824 6500
E: customer-service@power-sonic.com

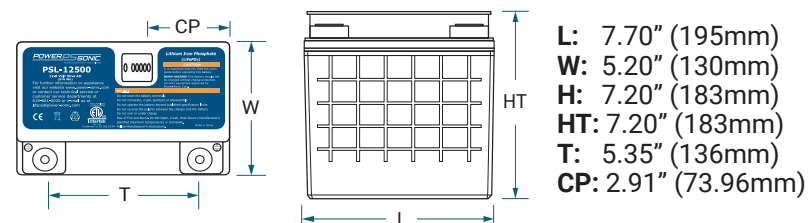
POWER SONIC EMEA (EMEA – EUROPE, MIDDLE EAST AND AFRICA)

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

PERFORMANCE SPECIFICATIONS

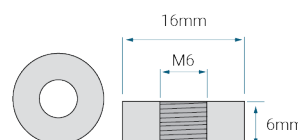
Nominal Voltage	25.6 V
Nominal Capacity	25.2 AH
Stored Energy	645 Wh
Dimensions	
Length (+/-2mm)	7.70" (195 mm)
Width (+/-2mm)	5.20" (130 mm)
Total Height (+/-4mm)	7.20" (183 mm)
Minimum Weight	12.5 lbs (5.70kg)
Internal Resistance	<60 mΩ
Max Continuous Discharge Current	20.0 A
Charge Cut-off Voltage	29.2V
Recommended Charge Current	5.0 A - 12.5 A
Recommended Discharge Cut-Off Voltage	22 V
Cycle Charge (Initial Current ≤ 0.25C)	28.8 V – 29.2 V
Cycle Life (@100% Depth of Discharge)	2000
Series Connection	No Series Connections
Parallel Connection	Contact Power-Sonic
Operating Temperature	
Charge	0 to 45 °C
Discharge	-20 to 60 °C
Case	ABS

DIMENSIONS



TERMINALS:

M6: Threaded insert with
6mm stud fastener

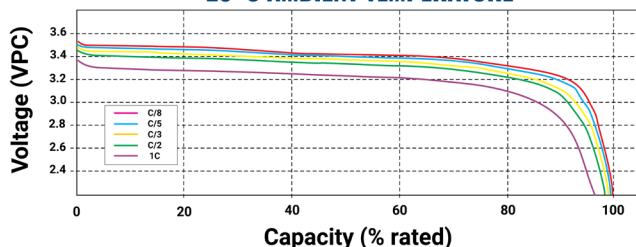


Torque: 3.9~5.4 Nxm

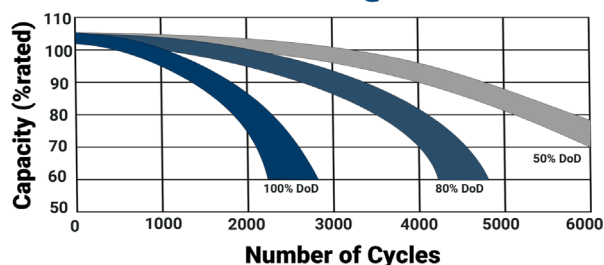




VOLTAGE PROFILES AT VARIOUS DISCHARGE RATES 25°C AMBIENT TEMPERATURE



CYCLE LIFE @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

- Medical
- Mobility
- Utility
- UPS
- Data Center
- Robotics

GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

Power-Sonic Corporation
365 Cabela Dr Suite 300,
Verdi, Nevada 89439 USA
T: +1 619 661 2020
E: customer-service@power-sonic.com

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

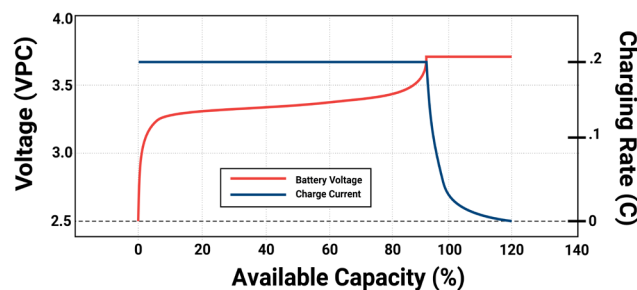
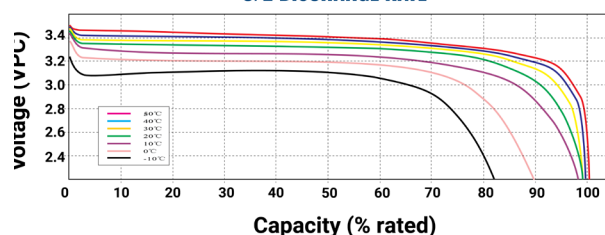
Smitspol 4, 3861 RS Nijkerk,
The Netherlands
T NL: + 31 33 7410 700
T UK: + 44 1268 560 686
T FR: + 33 344 32 18 17
E: salesEMEA@power-sonic.com

PSL-CP-24250

24V 25AH 645WH
LiFePO4

Rechargeable Lithium Battery
PSL-CP – Communication Port Series

VOLTAGE PROFILES AT VARIOUS AMBIENT TEMPERATURES C/2 DISCHARGE RATE



APPROVALS

- UN 38.3 certified
- IEC 62133 cell certificate



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.