



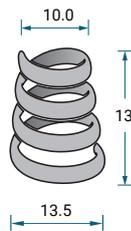
## PS-650LS

6V 5.00 AH @ 20-hr.  
6V 4.73 AH @ 10-hr.

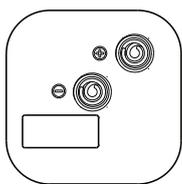
Rechargeable Sealed Lead Acid Battery  
PS – General Purpose Series

### TERMINALS: (mm)

**SP – Spring (PS-650LS):**  
Fully collapsible spring type terminals

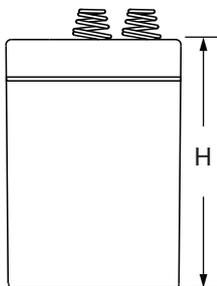


### DIMENSIONS: inch (mm)



**L:** 2.64 (67)  
**W:** 2.64 (67)  
**H:** 3.78 (96)  
**HT:** 4.29 (109)

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



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

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## FEATURES

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, maintenance free spill proof construction
- Advanced over-temperature protection with integrated Papi thermal protector
- Power/volume ratio yielding excellent energy density
- Rugged vibration and impact resistant ABS case and cover
- Gas recombination technology
- 5 year design life

## APPROVALS

- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized

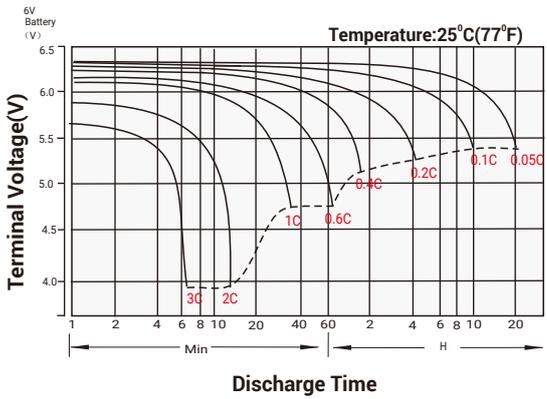
## PERFORMANCE SPECIFICATIONS

<b>Nominal Voltage</b>	6 volts (3 cells)
<b>Nominal Capacity</b>	
20-hr. (250mA to 5.25 volts)	5.00 AH
10-hr. (473mA to 5.25 volts)	4.73 AH
5-hr. (755mA to 5.25volts)	3.78 AH
1-hr. (3.63A to 4.80 volts)	3.63 AH
<b>Approximate Weight</b>	1.72 lbs. (0.78 kg)
<b>Internal Resistance (approx.)</b>	60 milliohms
<b>Max Discharge Current (5 Sec.)</b>	75A
<b>Shelf Life</b> (% of nominal capacity at 68°F (20°C))	
1 Month	97%
3 Month	91%
6 Month	83%
<b>Operating Temperature Range</b>	
Charge	32°F (-0°C) to 104°F (40°C)
Discharge	5°F (-15°C) to 122°F (50°C)
<b>Case</b>	ABS Plastic
<b>Power Sonic Chargers</b>	PSC-6500A-C PSC-6500-PC PSC-61000-PC PSC-61300-PC PSC-61000A-C

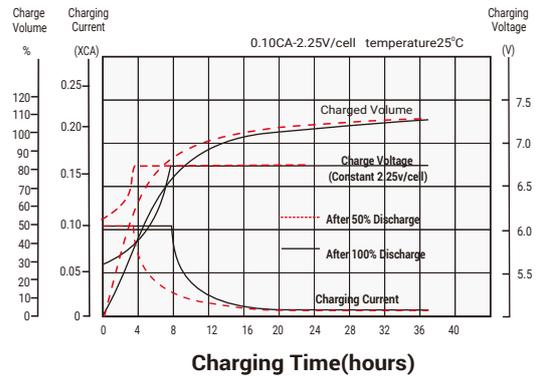
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### DISCHARGE CHARACTERISTICS



### FLOAT CHARGING CHARACTERISTICS



#### Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3.28	2.38	1.87	1.33	1.05	0.875	0.735	0.579	0.462	0.244
1.80V/cell	3.36	2.43	1.90	1.36	1.07	0.887	0.747	0.588	0.468	0.247
1.75V/cell	3.43	2.48	1.93	1.38	1.08	0.899	0.755	0.594	0.473	0.250
1.70V/cell	3.50	2.52	1.96	1.40	1.10	0.911	0.764	0.600	0.478	0.252
1.67V/cell	3.55	2.55	1.98	1.41	1.11	0.919	0.771	0.605	0.481	0.254
1.60V/cell	3.63	2.61	2.03	1.44	1.13	0.934	0.782	0.613	0.487	0.257

#### Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	6.39	4.65	3.65	2.62	2.07	1.73	1.45	1.15	0.918	0.489
1.80V/cell	6.52	4.73	3.71	2.66	2.10	1.75	1.48	1.16	0.930	0.495
1.75V/cell	6.63	4.81	3.77	2.70	2.13	1.77	1.49	1.18	0.938	0.500
1.70V/cell	6.73	4.88	3.81	2.73	2.15	1.79	1.51	1.19	0.947	0.504
1.67V/cell	6.82	4.93	3.85	2.75	2.17	1.80	1.52	1.20	0.954	0.508
1.60V/cell	6.94	5.01	3.91	2.80	2.20	1.83	1.54	1.21	0.965	0.514

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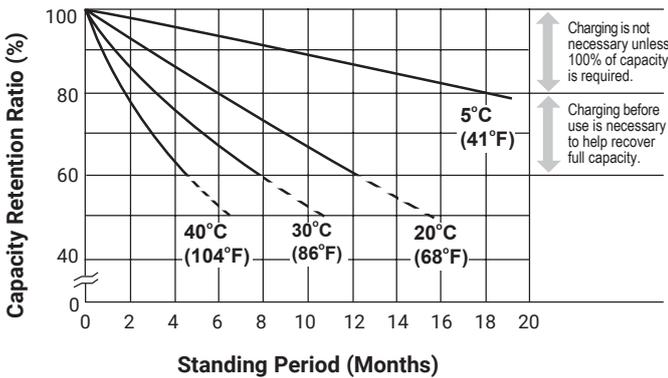
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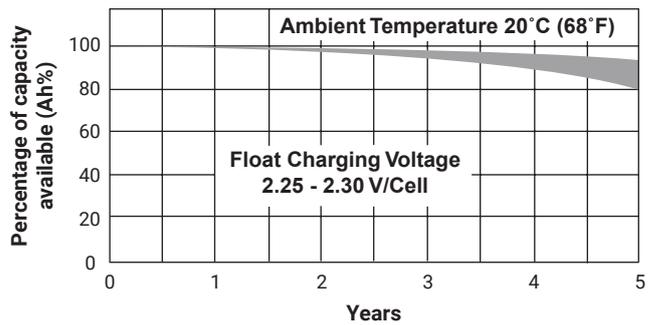
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Rechargeable Sealed Lead Acid Battery  
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**SHELF LIFE & STORAGE**



**LIFE CHARACTERISTICS IN STAND-BY USE**



**CHARGING**

**Cycle Applications:** Apply constant voltage charge at 2.35v/c – 2.45v/c (14.1 – 14.7v for 12v Monobloc) at 20°C. Initial charging current should be set at less than 1.35 Amps. Switch to float charge to avoid overcharging.

**“Float” or “Stand-By” Service:** Apply constant voltage charge of 2.25v/c – 2.30v/c (13.5 to 13.8 volts for 12v Monobloc) at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Temperature Compensation:** Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge.

For further charging information including temperature compensation factors, see Power Sonic Technical Manual/ Power Sonic Charger specifications.

**APPLICATIONS**

- General purpose
- Medical
- Emergency lighting
- Fire and security

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**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.

