



PS-12200HD

Heavy Duty
PS HD Series - Heavy Duty



Built with advanced AGM technology for durability and long-lasting performance. Engineered for demanding float and cyclic use, they deliver reliable power across a wide range of applications including telecom and UPS backup, industrial equipment, renewable energy systems, and marine or RV environments.

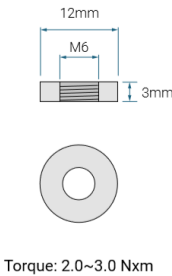
Configuration Options

- PS-12200HD M6

Performance Specs

Nominal Voltage	12.0 Volts, (6.0 cells)
Nominal Capacity	
20-hr. (1.1A to 10.5 Volts)	22.0Ah
10-hr. (2.07A to 10.5 Volts)	20.7Ah
5-hr. (3.65A to 10.2 Volts)	18.25Ah
1-hr. (14.6A to 9.6 Volts)	14.6Ah
Approximate Weight	15.1lbs, (6.85kg)
Dimensions	L: 7.16in, 182.0mm
+/- 0.08 in. (+/- 2mm) for length, width, and height dimensions	W: 3.03in, 77.0mm
	H: 6.54in, 166.0mm
	TH: 6.54in, 166.0mm
Internal Resistance (approx.) mΩ	7.0mΩ
Max Short Circuit Discharge Current	616.0A
Operating Temperature Range	
Charge	5°F (-15°C) to 104°F (40°C)
Discharge	-4°F (-20°C) to 122°F (50°C)
Case	ABS Plastic Rated to UL94:HB
Recommended Power-Sonic Charger	PSC-122000ACX

Available Terminals (mm)



Torque: 2.0~3.0 Nxm



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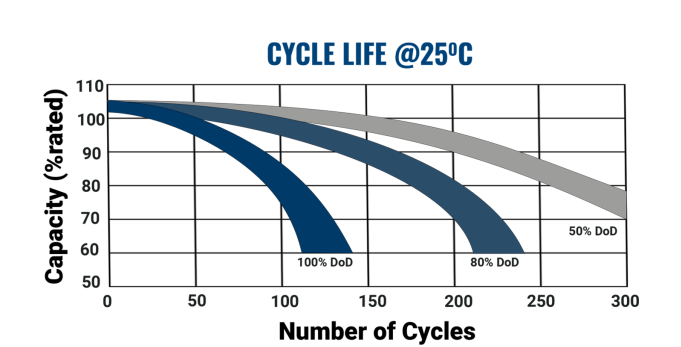
To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website. © 2025. Power-Sonic Corporation. All rights reserved. All trademarks are the property of their respective owners. All data subject to change without notice. E&O.
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Graphs

Capacity Retention SLA



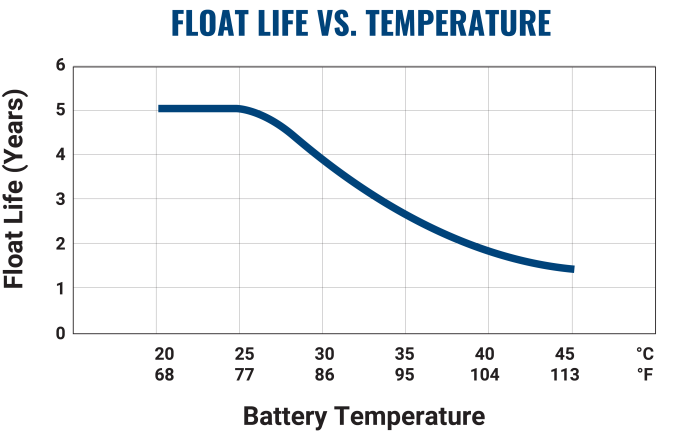
PS Cycle Life



SLA Charging



SLA Float Life 5YR



Constant Current

VoltageOverTime	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	83.6	56.9	46.6	36.5	24.7	17.8	13.9	9.83	7.75	5.7	4.45	3.67	3.11	2.44	1.98	1.03
1.65V/cell	76.5	53.0	43.8	34.6	23.6	17.1	13.4	9.5	7.5	5.55	4.33	3.59	3.05	2.4	1.95	1.0
1.67V/cell	75.8	52.5	43.5	34.4	23.4	17.0	13.3	9.41	7.44	5.5	4.3	3.56	3.03	2.39	1.94	1.02
1.70V/cell	72.5	50.5	42.2	33.5	22.9	16.6	13.0	9.24	7.32	5.41	4.24	3.52	2.99	2.36	1.92	1.01
1.75V/cell	66.9	47.3	39.9	31.8	21.9	16.0	12.6	8.94	7.09	5.26	4.14	3.44	2.93	2.32	1.89	1.0
1.80V/cell	61.4	44.1	37.7	30.3	21.0	15.4	12.1	8.65	6.88	5.12	4.04	3.36	2.87	2.28	1.86	0.99
1.85V/cell	52.6	37.4	32.4	26.3	18.5	13.7	10.9	7.9	6.33	4.74	3.75	3.12	2.67	2.13	1.74	0.98

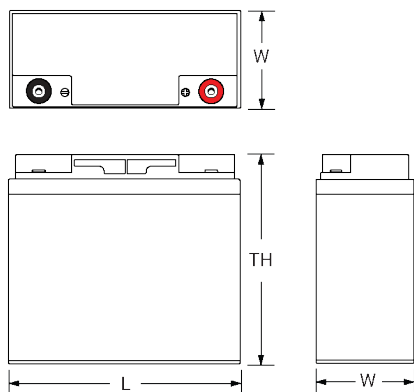
Constant Power

VoltageOverTime	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	155.2	109.9	87.7	67.2	45.8	33.3	26.2	18.6	14.8	10.9	8.58	7.12	6.06	4.78	3.88	2.06
1.65V/cell	154.5	104.2	85.7	64.5	44.3	32.3	25.4	18.0	14.4	10.7	8.4	6.98	5.95	4.71	3.84	1.97
1.67V/cell	153.0	103.2	85.0	64.0	43.9	32.0	25.2	17.9	14.3	10.6	8.35	6.93	5.9	4.68	3.81	2.03
1.70V/cell	147.6	100.4	81.7	62.7	43.1	31.4	24.8	17.7	14.1	10.5	8.25	6.86	5.85	4.64	3.78	2.02
1.75V/cell	138.9	95.6	77.2	60.1	41.6	30.5	24.1	17.2	13.7	10.2	8.08	6.73	5.74	4.57	3.73	2.0
1.80V/cell	128.8	90.6	73.9	57.9	40.2	29.6	23.4	16.8	13.4	10.0	7.91	6.6	5.64	4.5	3.68	1.98
1.85V/cell	114.0	78.7	64.4	50.7	35.8	26.6	21.3	15.4	12.4	9.28	7.36	6.15	5.26	4.21	3.45	1.96

Charging

Cycle Applications: Apply constant voltage charge at 2.35VPC – 2.45VPC (14.1 to 14.7 volts for 12V Monobloc) at 20°C. The initial charging current should be set at less than C/5 Amps. Switch to float charge when the current falls to a 3% capacity rate to avoid overcharging. **Stand-By or "Float" Service:** Apply constant voltage charge of 2.25VPC – 2.30VPC (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 stand-by applications should be regulated in relation to ambient temperature. As temperature rises, charging voltage should be reduced to prevent overcharge and increased as the temperature falls to avoid undercharge. For further charging information, including temperature compensation factors, see the Power-Sonic Technical Manual.

Engineering Drawing



For 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.

Approvals



ISO 9001:2015 certification ensures consistent quality management and manufacturing standards for energy storage products.



California Proposition 65 compliant, providing consumer safety through reduced chemical exposure in battery manufacturing.



Sealed lead-acid batteries classified UN2800 non-spillable, certified safe for air, sea, and ground transport worldwide.



UL 1989 certified for valve-regulated and vented lead-acid batteries used in UPS, emergency, and backup power applications.



UL Recognized mark certifies safety-tested components for electrical reliability in battery and energy storage systems.