PS-1230

Rechargeable Sealed Lead Acid Battery
PS – General Purpose Series

Versatile sealed lead acid batteries specifically engineered for use in general purpose float and light cyclic applications including fire and security systems, emergency lighting, UPS, toys and medical devices.

Available Terminals

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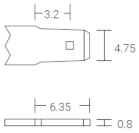
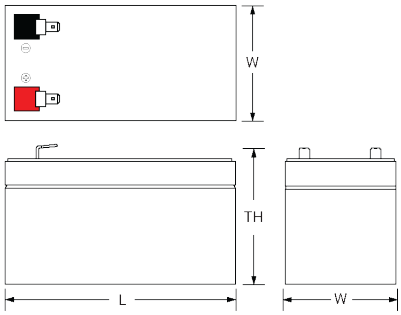
F1
FASTON
0.187" x 0.032" quick disconnect tabs.



Engineering Drawing



L: 5.28in (134.0mm)
W: 2.64in (67.0mm)
H: 2.36in (60.0mm)
HT: 2.6in (66.0mm)

+/- 0.08 in. (+/- 2mm) for length, width, and height dimensions

Features

- AGM Technology
- Gas Recombination
- Power Volume Ratio
- SLA ABS Case
- SLA Maintenance Free

Performance Specs

Nominal Voltage	12.0V
Nominal Capacity	3.4Ah
20-hr Rate	3.4Ah
10-hr Rate	3.2Ah
5-hr Rate	3.06Ah
1-hr Rate	2.15Ah
Weight	1.35kg
Internal Resistance	45.0 milliohms
Max Discharge Current	32.0A
Charge Temp Range	?4°F (?20°C) to 104°F (40°C)
Discharge Temp Range	5°F (?15°C) to 122°F (50°C)
Case Material	ABS (UL94 HB or V-0 optional)

Phone: 1 (775) 824-6500
www.power-sonic.com

To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

Available options

- PS-1230 FR F1 VDS
- PS-1230 FR F1

Applications


Emergency Lighting


Fire Security


General Purpose


Medical


Signaling (Air,Rail,Sea)


Solar


Telecomm


UPS


Utility


Wind

Constant Current Discharge Table

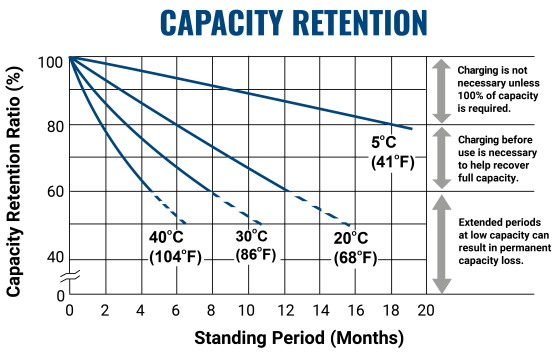
VoltageOverTime	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	13.8	9.04	6.8	5.38	3.88	2.76	2.15	1.58	1.25	0.91	0.729	0.626	0.534	0.419	0.34	0.178
1.65V/cell	13.2	8.85	6.64	5.28	3.82	2.73	2.13	1.56	1.24	0.897	0.724	0.622	0.53		0.338	0.175
1.67V/cell	13.0	8.67	6.57	5.23	3.78	2.69	2.1	1.55	1.23	0.894	0.717	0.616	0.527	0.413	0.332	0.174
1.70V/cell	12.5	8.44	6.41	5.12	3.72	2.65	2.07	1.53	1.21	0.885	0.71	0.611	0.522	0.41	0.33	0.172
1.75V/cell	12.0	8.11	6.21	4.98	3.62	2.59	2.03	1.5	1.2	0.872	0.7	0.602	0.516	0.406	0.32	0.17
1.80V/cell	11.4	7.8	6.01	4.84	3.53	2.54	1.99	1.48	1.18	0.859	0.691	0.595	0.51	0.401	0.314	0.167
1.85V/cell	10.6	7.36	5.72	4.66	3.43	2.47	1.94	1.45	1.15	0.845	0.681	0.586	0.502	0.396	0.31	0.165

Constant Power Discharge Table

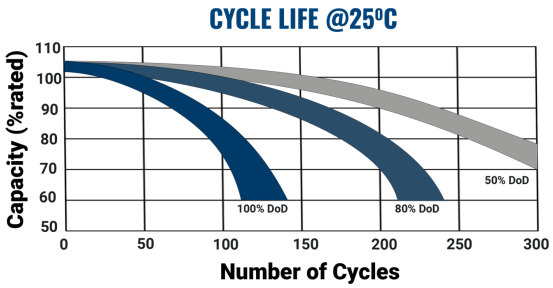
VoltageOverTime	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	24.6	16.5	12.7	10.1	7.36	5.24	4.11	3.04	2.42	1.77	1.42	1.23	1.06	0.827	0.675	0.359
1.65V/cell	24.1	16.2	12.4	9.91	7.26	5.18	4.06	3.01	2.39	1.76	1.41	1.22	1.05	0.818	0.671	0.357
1.67V/cell	23.6	16.1	12.3	9.88	7.2	5.15	4.04	2.99	2.38	1.74	1.4	1.21	1.04	0.816	0.668	0.356
1.70V/cell	23.0	15.7	12.1	9.7	7.09	5.08	3.99	2.96	2.36	1.73	1.39	1.2	1.03	0.81	0.663	0.353
1.75V/cell	22.2	15.2	11.7	9.48	6.94	4.99	3.93	2.92	2.33	1.71	1.38	1.19	1.02	0.803	0.657	0.35
1.80V/cell	21.3	14.7	11.4	9.28	6.8	4.9	3.86	2.87	2.29	1.68	1.36	1.17	1.01	0.795	0.651	0.346
1.85V/cell	20.0	14.0	11.0	8.97	6.62	4.79	3.78	2.82	2.26	1.66	1.34	1.16	0.99	0.784	0.643	0.342

Graphs

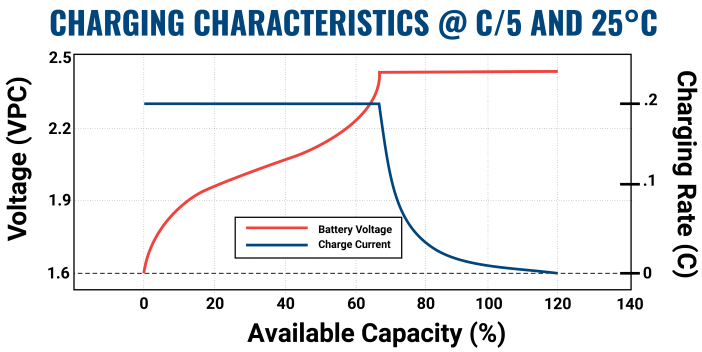
1. Capacity Retention SLA



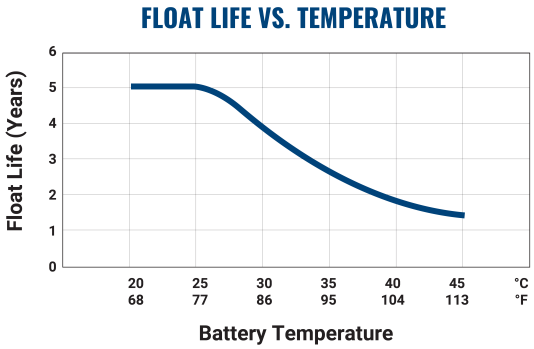
2. PS Cycle Life



3. SLA Charging



4. SLA Float Life 5YR



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 ? oat 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.

Approvals