



LP6-4.5S (6V 4.5Ah)

Specifications	
Rated Voltage	6
Nominal Capacity	4.5 Ah (C ₂₀ , 1.75V/cell)
Dimensions	Length 67mm
	Width 67 mm
	Container Height 96 mm
	Total Height 109 mm
Approx. Weight	0.78 Kg (1.72lbs)
Terminal	-
Layout	S1
Container material	ABS
Rated Capacity (25°C)	4.50 Ah (20hr, 0.225A, 1.80V/cell)
	4.19 Ah (10hr, 0.419A, 1.80V/cell)
	3.78 Ah (5hr, 0.756A, 1.75V/cell)
	3.30 Ah (3hr, 1.10A, 1.75V/cell)
	2.73 Ah (1hr, 2.73A, 1.60V/cell)
Max. Discharge Current	67.5A (5s)
Internal Resistance (25°C)	Approx 60mΩ
	Discharge: -15°C ~50°C (5~122°F)
Operating Temp. Range	Charge: 0°C ~40°C (32~104°F)
	Storage: -15°C ~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 1.35A. Voltage 7.2V~7.5V at 25°C (77 °F)Temp. Coefficient -15mV/°C
	Initial Charging Current less than 1.35A. Voltage 6.75V~6.9V at 25°C (77 °F)Temp. Coefficient -10mV/°C
Standby Use	40°C (104°F) 103%
	25°C (77°F) 100%
Effect Of Temp. To Capacity	0°C (32°F) 86%
	LP series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Self Discharge	



Description and Features

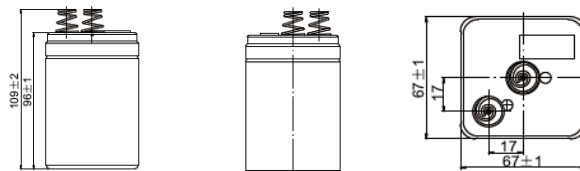
The LP Series AGM batteries have been specially developed to be widely applicable. These lead acid batteries with AGM technology are completely sealed and therefore 100% maintenance free and leak-proof. These batteries have a low self-discharge. The reliable and safe multipurpose batteries from the LP Series offer a long service life and can be used in various industries.

Features

- Absorbent Glass Mat technology
- Reliable and safe performance
- Long service life - 3-5 years in standby application (at 25°C)
- Suitable for multipurpose applications

Layout

UL certification



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5 Min	10 Min	15 Min	20 Min	30 Min	45 Min	1Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr
1.85V/cell	8.64	6.02	4.97	4.31	3.46	2.66	2.17	1.33	1.01	0.831	0.706	0.611	0.486	0.404	0.223
1.80V/cell	10.6	7.19	5.76	4.87	3.83	2.90	2.34	1.41	1.06	0.874	0.736	0.638	0.504	0.419	0.225
1.75V/cell	12.6	8.13	6.35	5.31	4.09	3.08	2.46	1.47	1.10	0.901	0.756	0.654	0.518	0.427	0.227
1.70V/cell	14.3	8.96	6.88	5.70	4.29	3.20	2.57	1.53	1.14	0.924	0.775	0.670	0.525	0.434	0.231
1.67V/cell	15.7	9.64	7.27	5.98	4.47	3.32	2.67	1.58	1.17	0.943	0.792	0.683	0.534	0.440	0.234
1.60V/cell	16.5	10.0	7.58	6.17	4.60	3.40	2.73	1.63	1.19	0.966	0.808	0.696	0.545	0.447	0.236

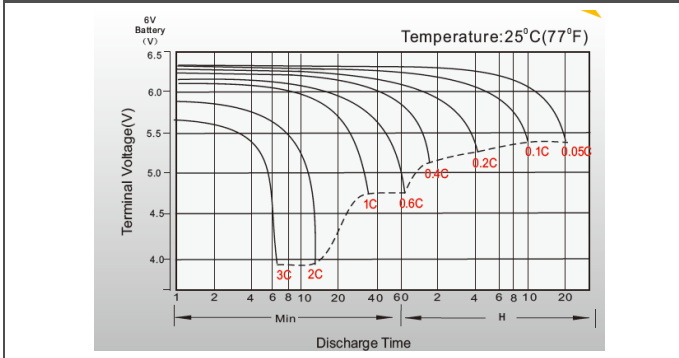
Constant Power Discharge Characteristics: Wpc (25°C)

F.V/Time	5 Min	10 Min	15 Min	20 Min	30 Min	45 Min	1Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr
1.85V/cell	16.3	11.5	9.55	8.35	6.74	5.21	4.28	2.63	2.01	1.66	1.41	1.23	0.977	0.815	0.450
1.80V/cell	19.8	13.6	11.0	9.37	7.41	5.65	4.58	2.78	2.10	1.73	1.46	1.27	1.01	0.838	0.452
1.75V/cell	23.2	15.2	12.0	10.1	7.86	5.96	4.80	2.88	2.16	1.78	1.49	1.30	1.03	0.849	0.453
1.70V/cell	26.0	16.6	12.9	10.8	8.20	6.16	4.97	2.98	2.22	1.81	1.52	1.32	1.04	0.858	0.459
1.67V/cell	28.3	17.6	13.4	11.2	8.48	6.36	5.15	3.05	2.27	1.84	1.55	1.34	1.05	0.866	0.463
1.60V/cell	29.2	18.1	13.9	11.4	8.62	6.44	5.22	3.13	2.31	1.87	1.57	1.36	1.07	0.876	0.464

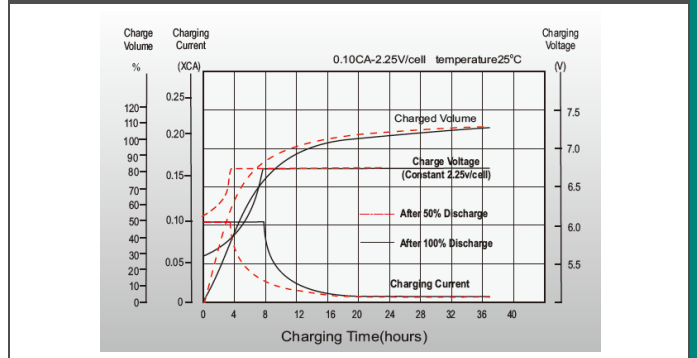


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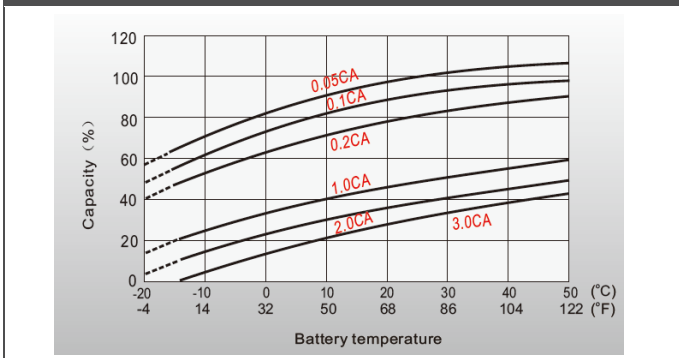
Discharge Characteristics



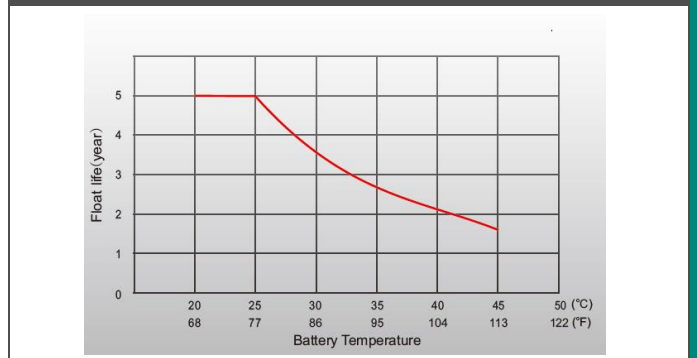
Float Charging Characteristics



Temperature Effects In Relation To Battery Capacity



Float Service Life



Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

General Features

- 5 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- UKCA Certified (for UK)
- IATF16949, ISO45001,ISO 9001 and ISO 14001 certified production facilities

(Note) All above information shall be changed without prior notice, Landport Batteries reserves the right to explain and update the latest information.