



# LP12-18 (12V 18Ah)

Specifications	
Rated Voltage	12
Nominal Capacity	18.0Ah (C <sub>20</sub> , 1.75V/cell)
Dimensions	Length 182 mm
	Width 77 mm
	Container Height 168 mm Total Height 168 mm
Approx. Weight	5.70 Kg (12.57lbs)
Terminal	T3
Layout	0
Container material	ABS
Rated Capacity (25°C)	18.0 Ah (20hr, 0.900A, 1.75V/cell)
	17.0 Ah (10hr, 1.70A, 1.75V/cell)
	15.5 Ah (5hr, 3.10A, 1.75V/cell)
	13.6 Ah (3hr, 4.52A, 1.75V/cell)
	11.2 Ah (1hr, 11.2A, 1.60V/cell)
Max. Discharge Current	270A (5s)
Internal Resistance (25°C)	Approx 16mΩ
Operating Temp. Range	Discharge: -15°C ~50°C (5~122°F)
	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 5.4A. Voltage 14.4V~15.0V at 25°C (77 °F)Temp. Coefficient -30mV/°C
Standby Use	Initial Charging Current less than 5.4A. Voltage 13.5V~13.8V at 25°C (77 °F)Temp. Coefficient -20mV/°C
Effect Of Temp. To Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	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.



## 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

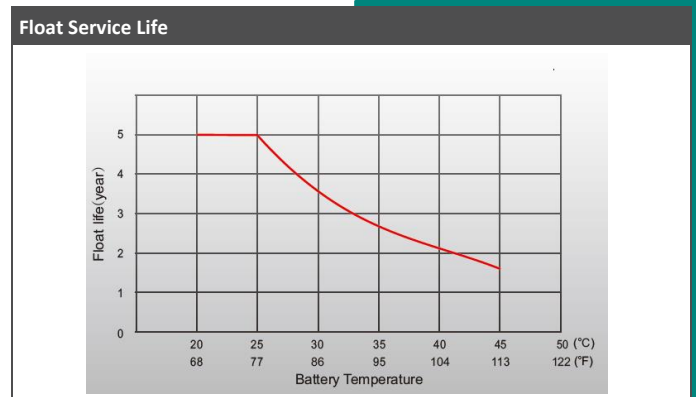
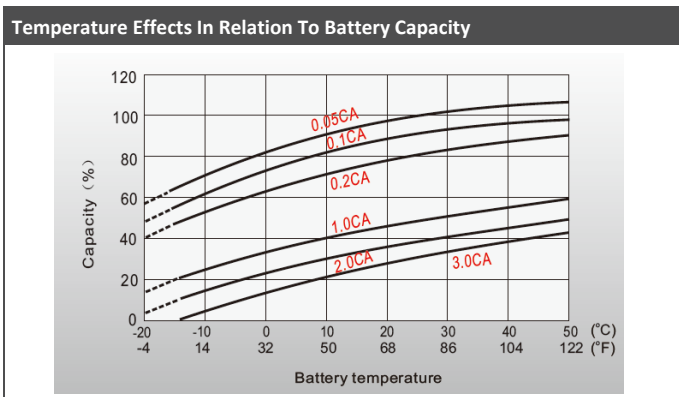
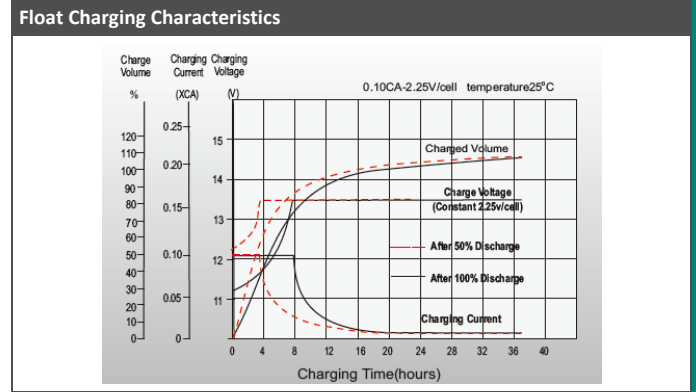
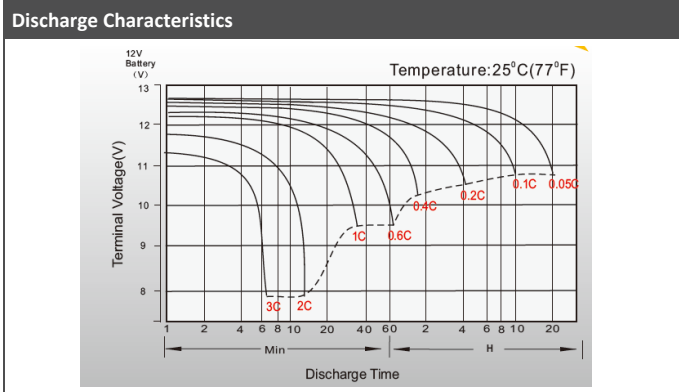
Layout	Terminal	UL certification

Constant Current Discharge Characteristics: A (25°C)																
F.V/Time	5 Min	10 Min	15 Min	20 Min	30 Min	45 Min	1 Hr	1.5 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr
1.85V/cell	49.1	33.7	26.2	21.9	16.6	12.3	10.2	7.5	6.0	4.37	3.52	3.02	2.58	2.03	1.66	0.880
1.80V/cell	52.8	35.7	27.5	22.7	17.1	12.6	10.4	7.7	6.1	4.44	3.57	3.06	2.62	2.06	1.69	0.890
1.75V/cell	55.7	37.1	28.4	23.4	17.5	12.9	10.6	7.8	6.2	4.52	3.62	3.10	2.65	2.09	1.70	0.900
1.70V/cell	58.3	38.6	29.4	24.0	18.0	13.2	10.8	8.0	6.3	4.58	3.67	3.14	2.68	2.11	1.72	0.907
1.67V/cell	60.3	39.7	30.1	24.5	18.3	13.4	11.0	8.1	6.4	4.63	3.71	3.17	2.71	2.12	1.73	0.914
1.60V/cell	64.0	41.4	31.4	25.3	18.8	13.7	11.2	8.2	6.5	4.71	3.77	3.22	2.75	2.15	1.75	0.924

Constant Power Discharge Characteristics: Wpc (25°C)																
F.V/Time	5 Min	10 Min	15 Min	20 Min	30 Min	45 Min	1 Hr	1.5 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr
1.85V/cell	93.0	64.1	50.2	42.1	32.1	23.8	19.8	14.7	11.7	8.59	6.94	5.95	5.11	4.03	3.31	1.76
1.80V/cell	99.0	67.5	52.4	43.6	32.9	24.4	20.2	15.0	11.9	8.72	7.03	6.03	5.18	4.09	3.35	1.78
1.75V/cell	103.2	69.7	53.8	44.5	33.6	24.8	20.5	15.2	12.1	8.83	7.12	6.10	5.23	4.13	3.38	1.80
1.70V/cell	107.0	72.0	55.2	45.6	34.3	25.3	20.8	15.4	12.2	8.95	7.20	6.17	5.29	4.17	3.41	1.81
1.67V/cell	109.8	73.6	56.4	46.4	34.8	25.6	21.1	15.6	12.4	9.02	7.26	6.22	5.33	4.20	3.43	1.83
1.60V/cell	114.2	75.8	57.9	47.6	35.6	26.1	21.5	15.9	12.6	9.17	7.37	6.30	5.40	4.25	3.47	1.85



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## 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.