



LP12-20 (12V 20Ah)

Specifications

Rated Voltage	12
Nominal Capacity	20.0Ah (C ₂₀ , 1.75V/cell)
Dimensions	Length 182 mm
	Width 77 mm
	Container Height 168 mm
	Total Height 168 mm
Approx. Weight	5.78 Kg (12.74 lbs)
Terminal	T3
Layout	0
Container material	ABS
Rated Capacity (25°C)	20.0 Ah (20hr, 1.00A, 1.75V/cell)
	18.9 Ah (10hr, 1.89A, 1.75V/cell)
	17.2 Ah (5hr, 3.44A, 1.75V/cell)
	15.3 Ah (3hr, 5.10A, 1.75V/cell)
	13.1 Ah (1hr, 13.1A, 1.60V/cell)
Max. Discharge Current	300A (5s)
Internal Resistance (25°C)	Approx 14mΩ
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 6.0A. Voltage 14.4V~15.0V at 25°C (77 °F)Temp. Coefficient -30mV/°C
	Initial Charging Current less than 6.0A. Voltage 13.5V~13.8V at 25°C (77 °F)Temp. Coefficient -20mV/°C
Standby Use	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Effect Of Temp. To Capacity	
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

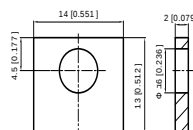
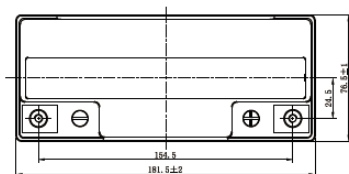
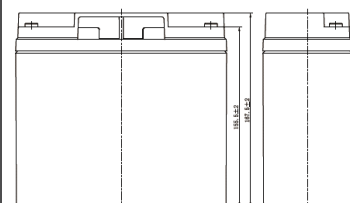
The LP Series AGM batteries have been specially developed to be widely applicable. These lead acid batteries with AGM technology are completely sealed and therefore 100% maintenance free and leak-proof. These batteries have a low self-discharge. The reliable and safe multipurpose batteries from the LP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



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	61.6	42.4	33.0	26.9	19.8	14.4	11.8	8.71	6.85	4.94	3.94	3.35	2.87	2.26	1.85	0.98
1.80V/cell	66.2	45.0	34.6	27.9	20.4	14.8	12.1	8.89	6.97	5.02	3.99	3.40	2.91	2.29	1.87	0.99
1.75V/cell	69.8	46.8	35.8	28.7	20.9	15.2	12.4	9.06	7.10	5.10	4.05	3.44	2.95	2.32	1.89	1.00
1.70V/cell	73.1	48.7	37.0	29.5	21.4	15.5	12.6	9.21	7.20	5.18	4.10	3.49	2.98	2.34	1.91	1.01
1.67V/cell	75.6	50.0	37.9	30.1	21.8	15.7	12.8	9.33	7.28	5.23	4.14	3.52	3.01	2.36	1.92	1.02
1.60V/cell	80.2	52.1	39.2	31.0	22.4	16.1	13.1	9.53	7.43	5.32	4.22	3.58	3.05	2.39	1.95	1.03

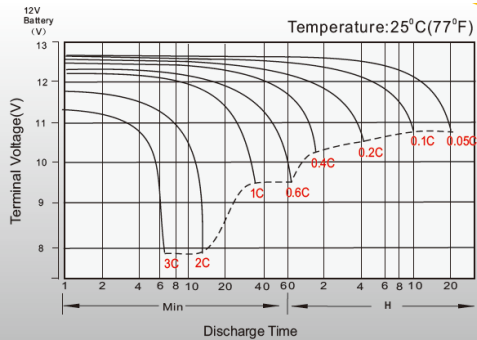
Constant Power Discharge Characteristics: Wpc (25°C)

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	116.5	80.7	63.2	51.7	38.2	28.0	23.0	17.0	13.4	9.71	7.76	6.62	5.68	4.48	3.67	1.96
1.80V/cell	124.1	85.0	65.9	53.5	39.2	28.7	23.5	17.3	13.6	9.85	7.85	6.70	5.76	4.54	3.72	1.98
1.75V/cell	129.3	87.8	67.7	54.7	40.1	29.2	23.9	17.6	13.8	10.0	7.95	6.78	5.82	4.59	3.75	2.00
1.70V/cell	134.1	90.7	69.5	56.0	40.9	29.7	24.3	17.8	14.0	10.1	8.05	6.86	5.88	4.63	3.79	2.02
1.67V/cell	137.6	92.7	71.0	57.0	41.5	30.1	24.6	18.0	14.1	10.2	8.11	6.91	5.93	4.66	3.81	2.03
1.60V/cell	143.1	95.4	73.0	58.4	42.4	30.7	25.0	183	14.4	10.4	8.23	7.00	6.00	4.73	3.86	2.05

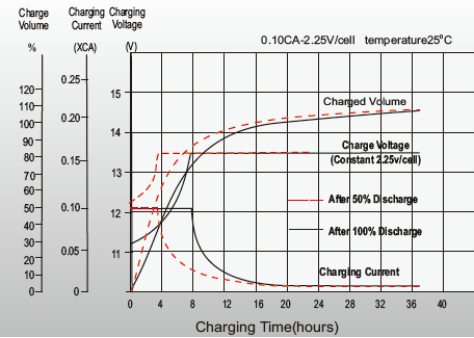


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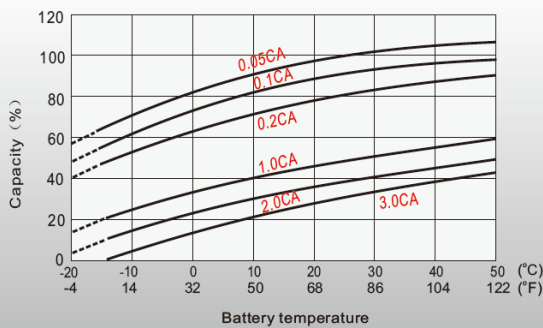
Discharge Characteristics



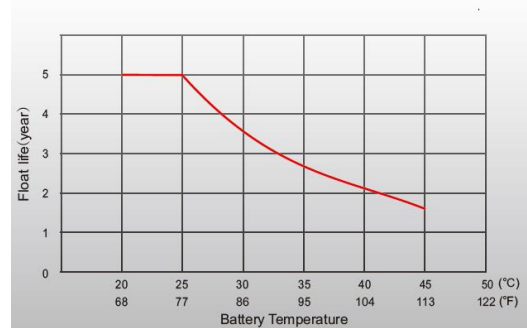
Float Charging Characteristics



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
- 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.