



LP12-40 (12V 38Ah)

Specifications	
Rated Voltage	12
Nominal Capacity (20Hr)	38.0Ah
Dimensions	Length 197 mm
	Width 165 mm
	Container Height 170 mm
	Total Height 170 mm
Approx. Weight	13.2 Kg (29.1lbs)
Terminal	T6
Layout	0
Container material	ABS
Rated Capacity (25°C)	38.0 Ah (20hr, 1.9A, 1.80V/cell)
	36.1 Ah (10hr, 3.61A, 1.80V/cell)
	31.1 Ah (5hr, 6.21A, 1.75V/cell)
	28.2 Ah (3hr, 9.39A, 1.75V/cell)
	22.0 Ah (1hr, 22.0A, 1.60V/cell)
Max. Discharge Current	456A (5s)
Internal Resistance (25°C)	Approx 10mΩ
	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 12.0A. Voltage 14.4V~15.0V at 25°C (77 °F)Temp. Coefficient -30mV/°C
Standby Use	No Limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77 °F)Temp. Coefficient -20mV/°C
	40°C (104°F) 103%
Effect Of Temp. To Capacity	25°C (77°F) 100%
	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.



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

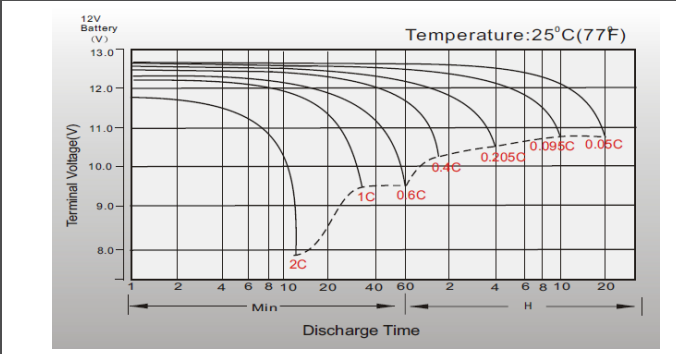
Constant Current Discharge Characteristics: A (25°C)															
F.V/Time	5 Min	10 Min	15 Min	20 Min	30 Min	45 Min	1Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr
1.85V/cell	61.8	48.6	41.3	34.6	27.5	20.8	17.0	10.8	8.57	7.00	5.64	4.91	3.99	3.41	1.88
1.80V/cell	82.9	62.1	49.9	40.8	32.4	24.2	19.1	11.8	9.22	7.48	6.06	5.27	4.23	3.61	1.90
1.75V/cell	93.5	68.2	54.5	43.9	33.6	25.1	19.9	12.3	9.39	7.64	6.21	5.42	4.30	3.65	1.92
1.70V/cell	103.0	74.3	58.2	46.2	35.0	26.1	20.6	12.8	9.66	7.84	6.38	5.53	4.36	3.68	1.95
1.67V/cell	113.5	80.2	61.9	49.1	36.9	26.7	21.3	13.1	10.1	8.12	6.55	5.65	4.43	3.76	1.98
1.60V/cell	125.2	87.1	66.2	52.3	39.0	27.9	22.0	13.6	10.4	8.37	6.77	5.77	4.48	3.80	1.99

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	113.0	89.7	77.1	65.1	52.3	39.9	32.8	21.1	16.7	13.7	11.1	9.66	7.88	6.75	3.73
1.80V/cell	150.0	113.3	91.9	75.9	60.8	46.1	36.6	22.8	17.9	14.5	11.8	10.3	8.33	7.14	3.76
1.75V/cell	165.5	122.5	99.1	80.8	62.6	47.4	38.1	23.6	18.1	14.8	12.1	10.6	8.45	7.20	3.79
1.70V/cell	177.2	130.5	104.4	84.3	64.8	49.1	39.2	24.5	18.6	15.2	12.4	10.8	8.56	7.26	3.86
1.67V/cell	192.7	139.5	110.1	88.9	67.8	49.9	40.2	25.0	19.3	15.6	12.7	11.0	8.68	7.40	3.91
1.60V/cell	207.6	148.0	115.8	93.7	71.1	51.7	41.4	25.7	19.8	16.1	13.1	11.2	8.74	7.47	3.92

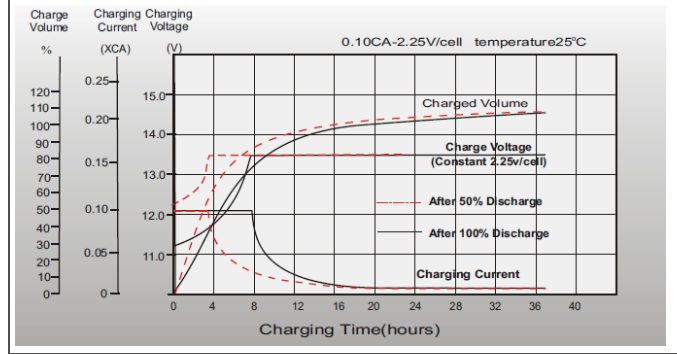


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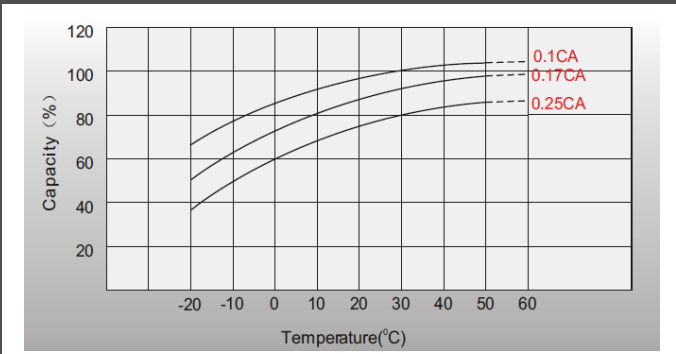
Discharge Characteristics



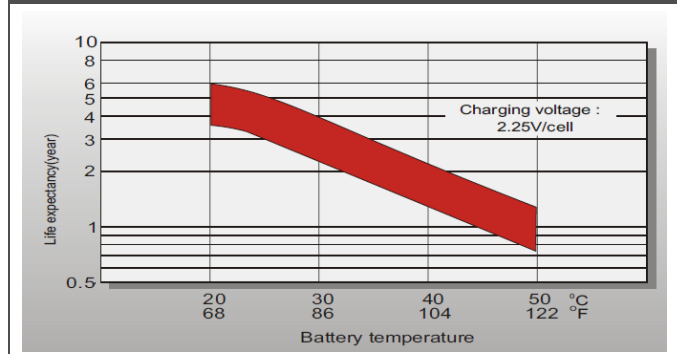
Float Charging Characteristics



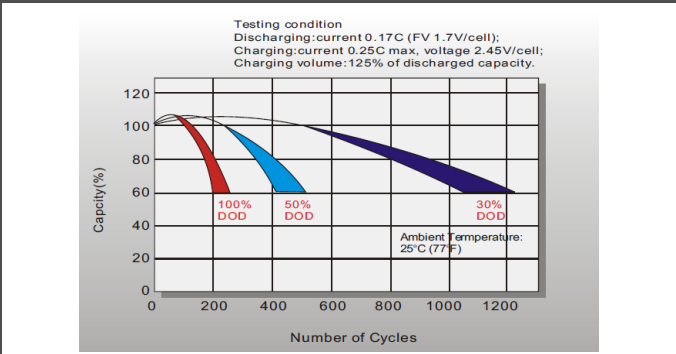
Temperature Effects In Relation To Battery Capacity



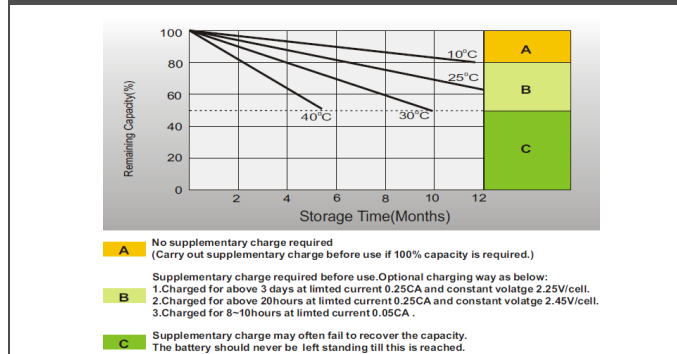
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system

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