



LP12-120 (12V 120Ah)

Specifications	
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	120Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 33.5 Kg (Tolerance±3.0%)
Dimensions	Length 407 mm
	Width 177 mm
	Container Height 225 mm
	Total Height 225 mm
Internal Resistance	Approx. 4.5 mΩ
Terminal	T11
Layout	1
Max. Discharge Current	1200A (5 sec)
Short Circuit Current	2220A
Max. Charging Current	36.0 A
Reference Capacity	C3 93.0AH
	C5 104.5AH
	C10 120.0AH
	C20 127.2AH
	Standby Use Voltage
Cycle Use Voltage	14.6 V~14.8 V @ 25°C
	Temperature Compensation: -4mV/°C /Cell Discharge: -20°C ~60°C
Operating Temp. Range	Charge: 0°C ~50°C
	Storage: -20°C ~60°C
Nominal Operating Temp. Range	25°C ±5°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
	Container Material



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	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr	
1.60V	278.2	218.7	131.4	73.3	43.7	33.8	26.6	22.6	15.2	12.7	6.62	
1.65V	262.9	209.1	126.2	70.8	42.3	32.8	25.9	22.1	15.0	12.5	6.52	
1.70V	242.0	195.8	120.6	68.5	40.9	31.9	25.2	21.5	14.8	12.3	6.44	
1.75V	221.6	182.2	115.3	66.0	39.5	31.0	24.5	20.9	14.6	12.2	6.36	
1.80V	200.6	168.3	110.2	63.5	38.1	30.0	23.8	20.4	14.4	12.0	6.30	
1.85V	163.9	139.6	94.9	56.9	34.9	27.7	22.1	19.0	13.5	11.3	5.98	

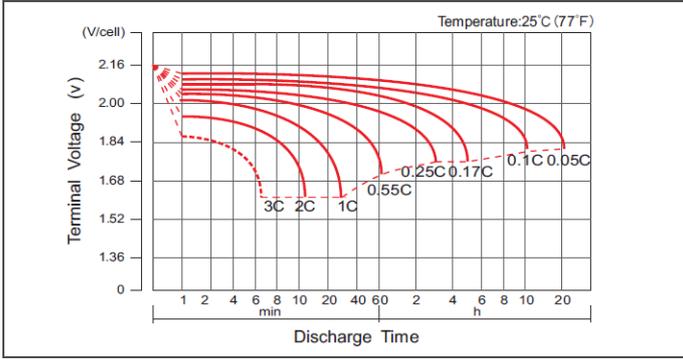
Constant Power Discharge Characteristics: Wpc (25°C)												
F.V/Time	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr	
1.60V	472.9	328.3	238.7	137.8	82.8	64.6	51.1	43.6	29.7	24.9	13.0	
1.65V	455.5	371.0	231.6	133.8	80.5	62.9	49.9	42.7	29.4	24.6	12.9	
1.70V	427.1	352.6	223.5	130.3	78.3	61.5	48.7	41.7	29.1	24.3	12.7	
1.75V	398.0	332.9	215.9	126.3	75.9	59.9	47.6	40.8	28.7	24.0	12.6	
1.80V	366.5	311.8	208.4	122.1	73.6	58.3	46.4	39.9	28.3	23.7	12.5	
1.85V	304.9	262.4	181.3	110.2	67.8	54.1	43.3	37.3	26.6	22.4	11.8	

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C10 should reach 95% after the first cycle and 100% after the third cycle.

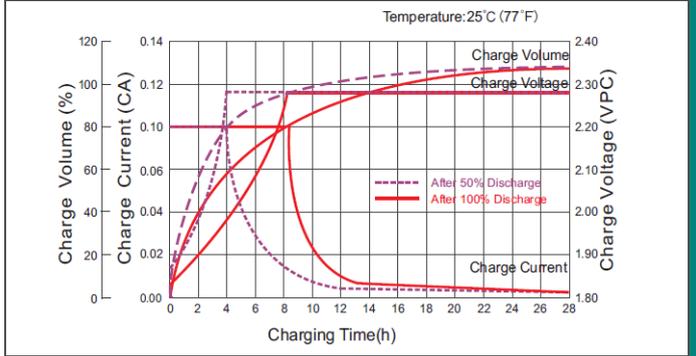


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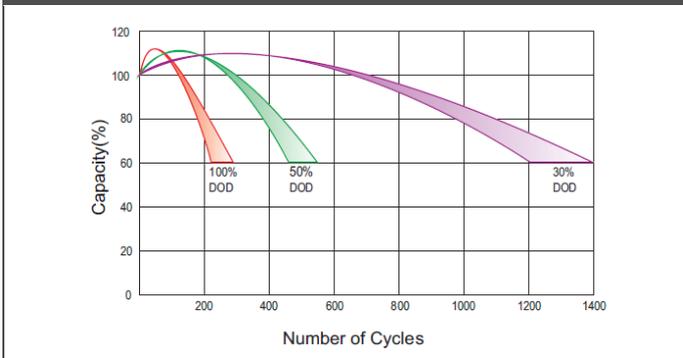
Charge Characteristic Curve



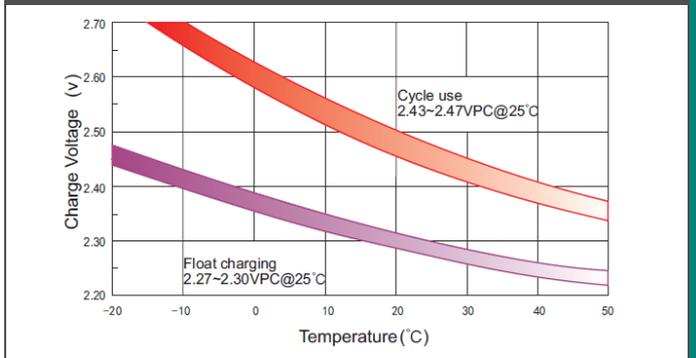
Charge Characteristic Curve For Standby Use



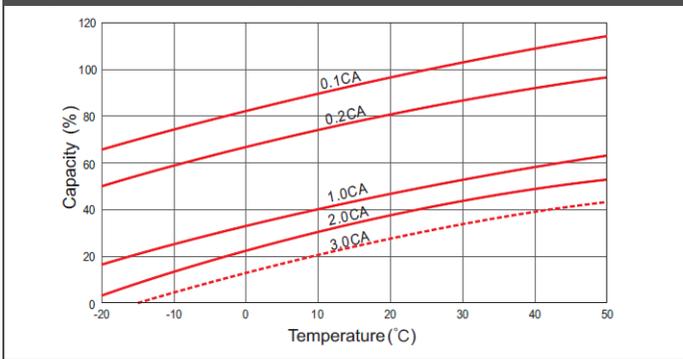
Cycle Life In Relation To Depth Of Discharge



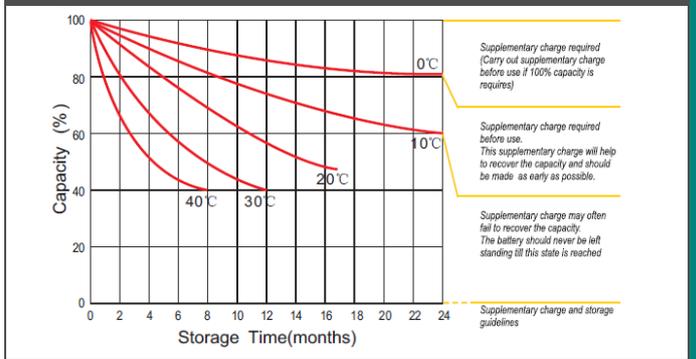
Relationship Between Charging Voltage And Temperature



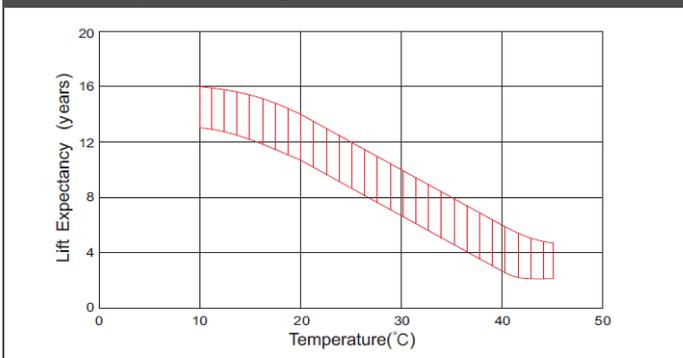
Temperature Effects On Capacity



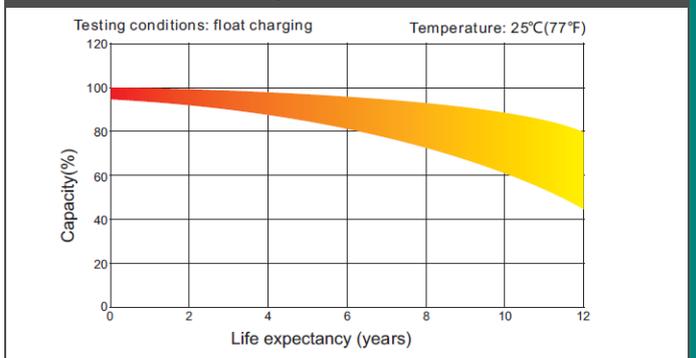
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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