



# LP12-65 (12V 65Ah)

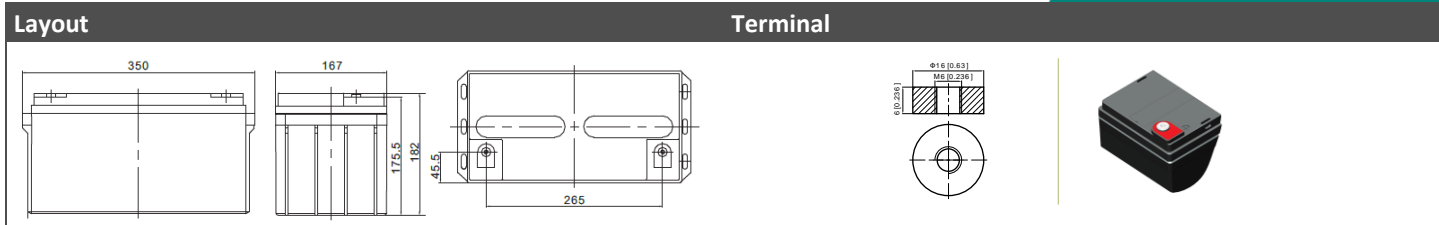
Specifications	
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	65Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 17.5 Kg (Tolerance±3.0%)
Dimensions	Length 350 mm
	Width 167 mm
	Container Height 182 mm
	Total Height 182 mm
Internal Resistance	Approx. 8.5 mΩ
Terminal	T6
Layout	1
Max. Discharge Current	650A (5 sec)
Short Circuit Current	1450A
Design Life	12 years (Float charging)
Max. Charging Current	19.5 A
Reference Capacity	C3 50.4AH
	C5 56.5AH
	C10 65.0AH
	C20 68.8AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C
	Temperature Compensation: -3mV/°C /Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C
	Temperature Compensation: -4mV/°C /Cell
Operating Temp. Range	Discharge: -20°C ~60°C
	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	A.B.S. UL94-HB, UL94-V0 Optional.



### 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



Constant Current Discharge Characteristics: A (25°C)												
F.V/Time	5Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.60V	202.0	155.5	119.3	70.5	39.7	23.7	18.3	14.4	12.3	8.24	6.86	3.59
1.65V	194.7	146.9	114.1	67.7	38.4	22.9	17.8	14.0	11.9	8.15	6.77	3.53
1.70V	185.2	135.2	106.8	64.7	37.1	22.2	17.3	13.6	11.6	8.02	6.67	3.49
1.75V	173.0	123.8	99.4	61.8	35.7	21.4	16.8	13.3	11.3	7.91	6.58	3.44
1.80V	157.6	112.1	91.8	59.1	34.4	20.6	16.3	12.9	11.0	7.78	6.50	3.41
1.85V	138.7	91.6	76.2	50.9	30.8	18.9	15.0	12.0	10.3	7.30	6.12	3.24

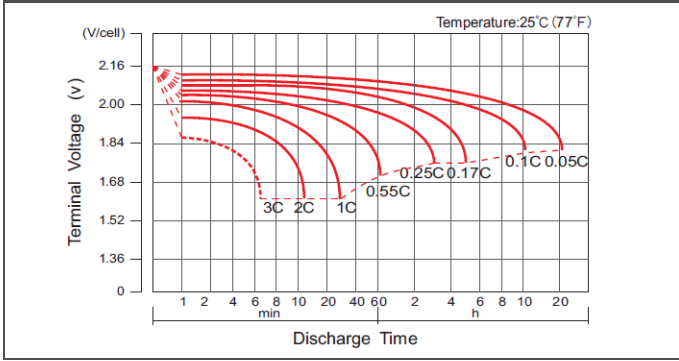
Constant Power Discharge Characteristics: Wpc (25°C)												
F.V/Time	5Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.60V	347.7	264.3	208.6	128.0	74.6	44.8	35.0	27.7	23.6	16.1	13.5	7.06
1.65V	344.0	254.5	202.4	124.2	72.5	43.6	34.1	27.0	23.1	15.9	13.3	6.96
1.70V	330.9	238.6	192.4	119.9	70.6	42.4	33.3	26.4	22.6	15.7	13.2	6.89
1.75V	314.7	222.4	181.6	115.8	68.4	41.1	32.4	25.8	22.1	15.5	13.0	6.81
1.80V	291.7	204.8	170.1	111.8	66.2	39.9	31.6	25.2	21.6	15.3	12.8	6.75
1.85V	261.2	107.4	143.1	97.2	59.7	36.7	29.3	23.5	20.2	14.4	12.1	6.42

(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.

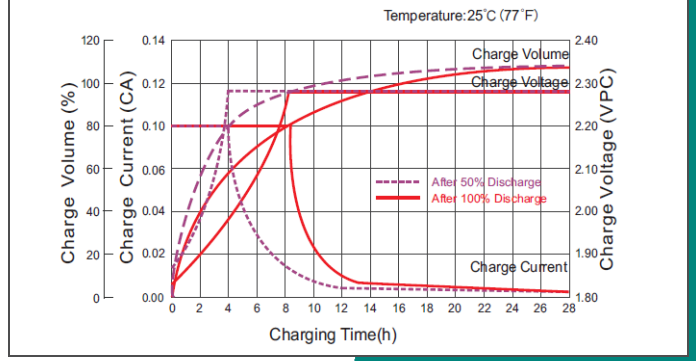


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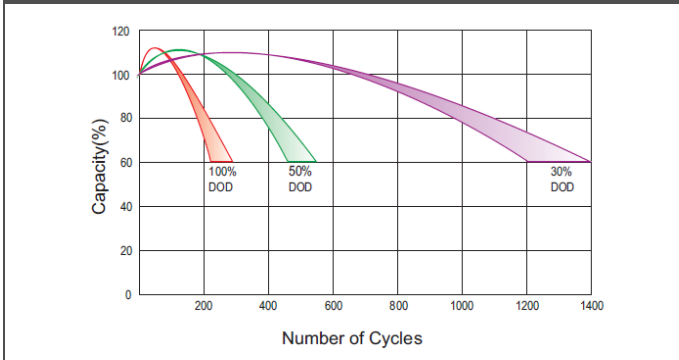
## Charge Characteristic Curve



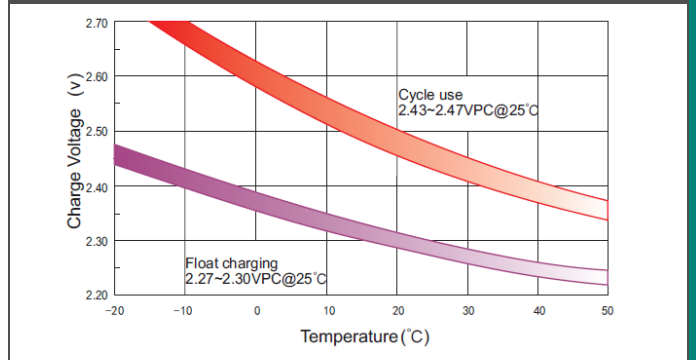
## Charge Characteristic Curve For Standby Use



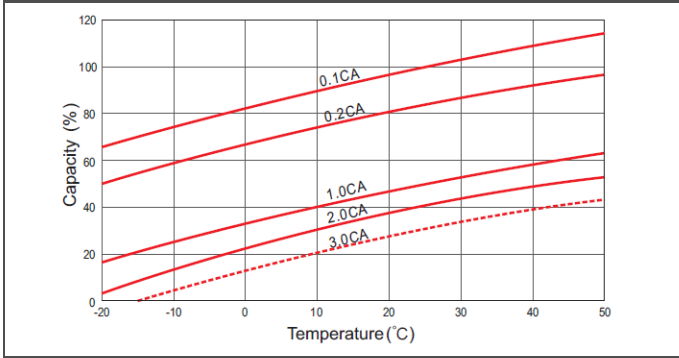
## Cycle Life In Relation To Depth Of Discharge



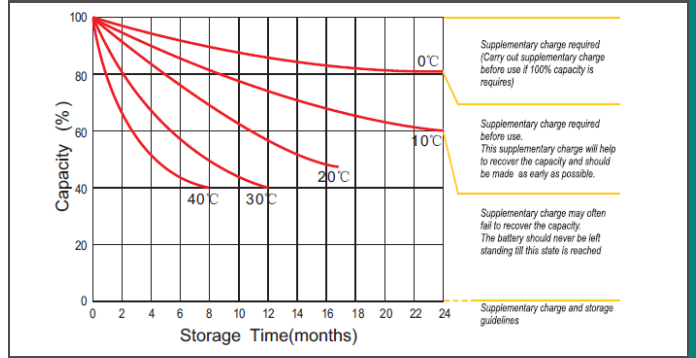
## Relationship Between Charging Voltage And Temperature



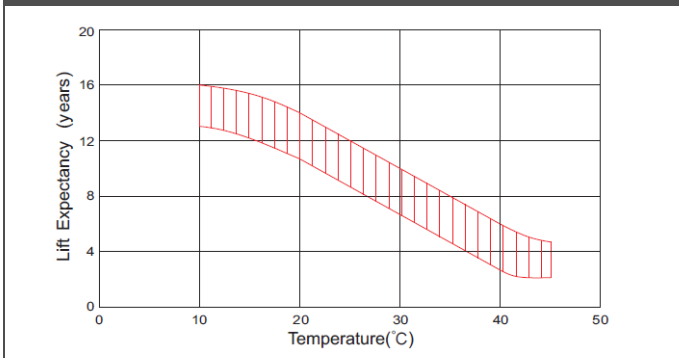
## Temperature Effects On Capacity



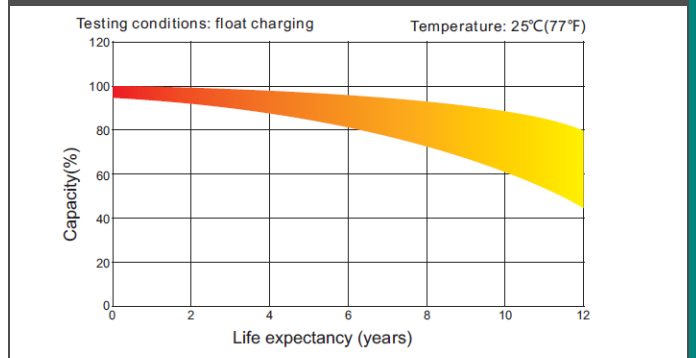
## Storage Characteristics



## 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.