



LP Series- Battery

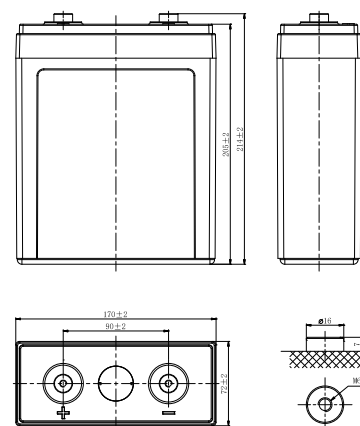
LP2-100(2V100Ah)

Specifications of LP2-100

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	100Ah
Dimension	Length	170±2mm(6.69inches)
	Width	72±1mm(2.83 inches)
	Container Height	205±3mm(8.07 inches)
	Total Height	212±3mm(8.35 inches)
Approx Weight	5.8kg (12.8 lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity(25°C)	105.0 Ah	C20(5.25A, 1.80V/cell)
	100.0 Ah	C10(10.0A, 1.80V/cell)
	87.0 Ah	C5(17.4A, 1.75V/cell)
	75.6 Ah	C3(25.2A, 1.75V/cell)
	60.7 Ah	C1(60.7A, 1.60V/cell)
Max. Discharge Current	800A (5s)	
Internal Resistance(25°C)	Approx 1.12mΩ	
Short Circuit Current	1760 A	
Operating Temp. Range	Discharge	-15 ~ 50°C(5 ~ 122°F)
	Charge	0 ~ 40°C(32 ~ 104°F)
	Storage	-15 ~ 40°C(5 ~ 104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Standby Use	Initial Charging Current less than 30.0A Voltage	
	2.25V~2.3 V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 30.0AVoltage	
	2.35V~ 2.4V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Marstech 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.	



Layout



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	103.0	92.7	76.7	60.8	49.9	30.0	23.2	19.0	16.2	14.2	11.4	9.55	5.07
1.80V/cell	117.0	103.2	82.3	64.0	53.0	31.6	24.3	19.9	16.9	14.8	11.8	10.0	5.25
1.75V/cell	128.5	111.2	87.1	67.3	55.3	32.9	25.2	20.6	17.4	15.1	12.1	10.1	5.30
1.70V/cell	137.2	119.0	91.4	69.8	57.2	33.9	25.9	21.0	17.7	15.4	12.3	10.2	5.36
1.65V/cell	144.6	124.8	95.9	72.8	59.3	34.9	26.4	21.5	18.1	15.7	12.4	10.3	5.42
1.60V/cell	151.6	129.5	99.2	74.8	60.7	35.8	27.0	21.8	18.3	15.9	12.6	10.5	5.49

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	195.0	176.3	146.5	116.9	96.5	58.3	45.3	37.3	31.9	28.0	22.6	19.0	10.1
1.80V/cell	218.7	194.2	156.0	122.2	101.9	61.2	47.3	38.8	33.1	29.1	23.4	19.9	10.4
1.75V/cell	236.9	207.0	163.9	127.7	105.9	63.5	48.9	40.0	34.0	29.7	23.8	20.0	10.5
1.70V/cell	250.2	219.4	170.5	131.6	109.0	65.1	50.0	40.7	34.5	30.2	24.2	20.2	10.6
1.65V/cell	260.4	227.8	177.6	136.6	112.3	66.8	50.9	41.5	35.1	30.6	24.4	20.4	10.7
1.60V/cell	268.5	233.6	181.8	138.9	114.2	67.9	51.7	41.9	35.5	30.9	24.7	20.6	10.9



LP Series-Battery LP2-100(2V100Ah)

Applications

- Telecommunications
- UPS system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats

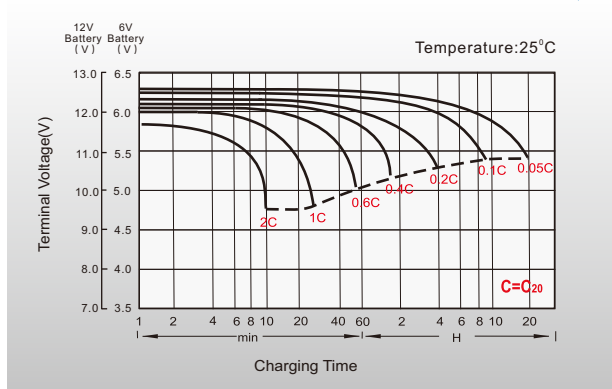
General Features

- Battery design life up to 15 years
- Special plate design guarantees battery floating life more than 1800 times
- High thermal capacity reduce the risk of thermal out of control and drying hard, and the battery can be used in bad environment
- Little water losing, and no electrolyte stratification phenomenon

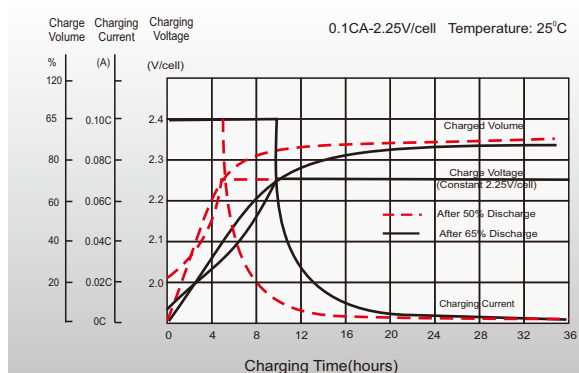
Standards

- IEC 60896 Certified
- Classified as "Long Life"
- ISO 14001 & ISO 45001 Certified
- ISO 9001 Certified
- Manufactured in standard IATF16949,

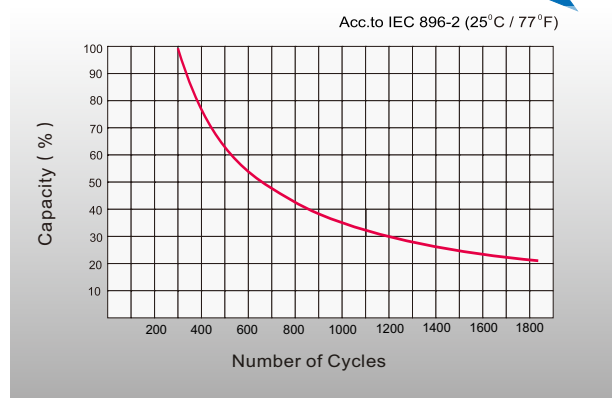
Discharge Characteristics



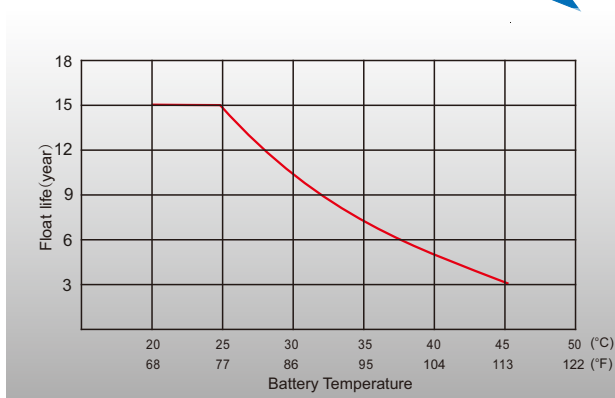
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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