

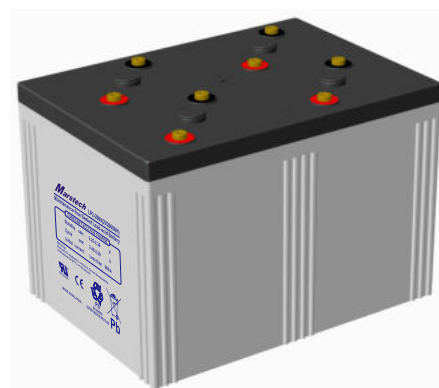


LP Series - Battery

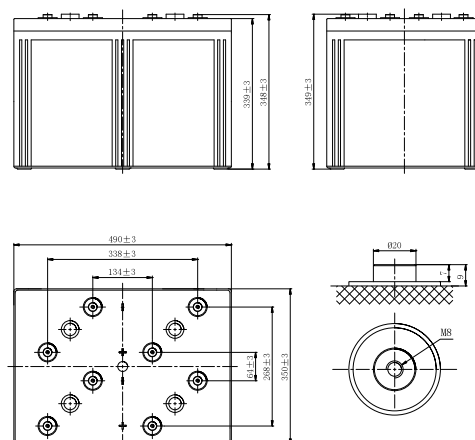
LP2-2000(2V2000Ah)

Specifications of LP2-2000

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	2000Ah
Dimension	Length	490±3mm(19.29inches)
	Width	350±3mm(13.78inches)
	Container Height	339±3mm(13.35inches)
	Total Height	349±3mm(13.74inches)
Approx Weight	121.0kg (266.8 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity(25°C)	2100.0 Ah	C20(105.0A, 1.80V/cell)
	2000.0 Ah	C10(200.0A, 1.80V/cell)
	1740.0 Ah	C5(348.0A, 1.75V/cell)
	1512.0 Ah	C3(504.0A, 1.75V/cell)
	1214.0 Ah	C1(1214A, 1.60V/cell)
Max. Discharge Current	16000A (5s)	
Internal Resistance(25°C)	Approx 0.18mΩ	
Short Circuit Current	16818 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 600.0A Voltage	
	2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 600.0A Voltage	
	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	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1533.6	1216.0	998.0	599.5	463.3	380.5	324.0	283.0	228.0	191.0	101.3
1.80V/cell	1645.5	1279.3	1060.0	632.4	486.0	397.5	337.6	295.7	236.8	200.0	105.0
1.75V/cell	1742.5	1345.2	1106.0	658.6	504.0	411.0	348.0	302.7	241.3	202.0	106.1
1.70V/cell	1828.4	1395.9	1144.7	678.0	517.3	420.0	354.0	308.0	245.0	204.0	107.1
1.65V/cell	1917.9	1456.7	1186.0	698.4	528.7	429.0	361.6	313.3	248.5	206.6	108.5
1.60V/cell	/	1496.0	1214.0	715.0	540.0	435.0	366.8	317.7	251.8	209.0	109.7

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

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2930.8	2338.0	1930.4	1166.0	905.5	746.3	638.3	559.2	452.4	379.9	201.7
1.80V/cell	3119.4	2443.5	2038.9	1224.3	945.3	777.0	662.1	581.9	468.4	397.2	208.7
1.75V/cell	3278.2	2554.3	2118.0	1269.9	977.8	800.6	680.2	593.8	476.2	400.7	210.6
1.70V/cell	3410.8	2632.0	2180.6	1301.8	999.9	814.8	689.9	603.4	483.1	404.4	212.5
1.65V/cell	3551.2	2731.3	2246.4	1335.3	1017.3	829.5	702.2	611.9	488.8	408.9	215.0
1.60V/cell	/	2778.8	2283.5	1358.5	1033.7	837.4	709.5	618.5	494.2	412.9	217.1



LP Series-Battery

LP2-2000(2V2000Ah)

Applications

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

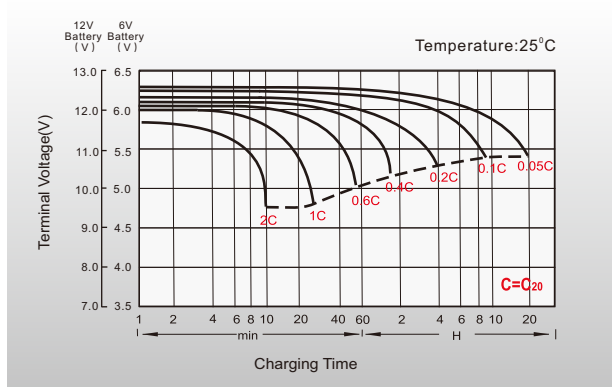
General Features

- 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

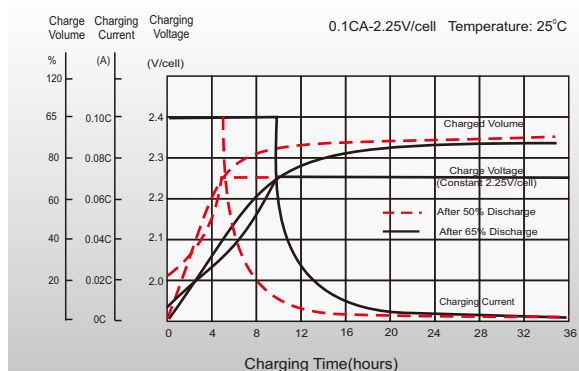
Standards

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

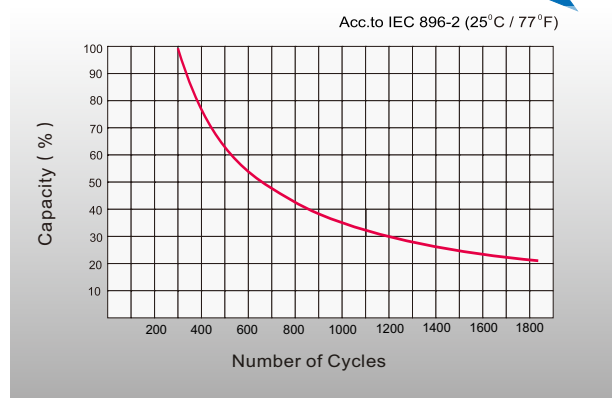
Discharge Characteristics



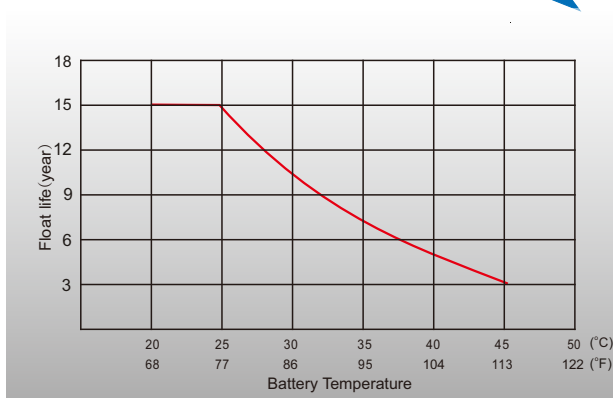
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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