



LP Series- Battery

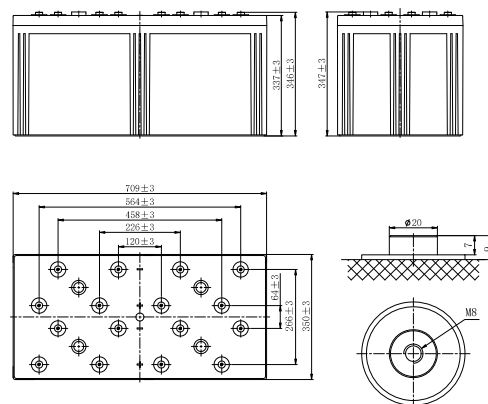
LP2-3000(2V3000Ah)

Specifications of LP2-3000

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	3000Ah
Dimension	Length	709±3mm(27.9 inches)
	Width	350±3mm(13.8 inches)
	Container Height	337±3mm(13.3 inches)
	Total Height	347±3mm(13.7 inches)
Approx Weight	183.0 kg (403.4 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	3180.0 Ah	C20 (159.0A, 1.80V/cell)
	3000.0 Ah	C10(300.0A, 1.80V/cell)
	2625.0 Ah	C5(525.0A, 1.75V/cell)
	2340.0 Ah	C3(780.0A, 1.75V/cell)
	1851.6 Ah	C1(1851.6A, 1.60V/cell)
Max. Discharge Current	24000A (5s)	
Internal Resistance(25°C)	Approx 0.2mΩ	
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 900.0A Voltage	
	2.25V~2.3 V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 900.0AVoltage	
	2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
Effect of temp. to Capacity	0°C (32°F)	86%
	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.	
Self Discharge		



Layout



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

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2098.8	1659.4	1481.9	1139.3	923.0	702.2	564.8	476.6	413.7	336.2	281.1	150.7
1.80V/cell	2372.9	1816.3	1631.1	1246.6	1004.2	752.7	608.8	513.3	443.8	360.0	300.0	159.0
1.75V/cell	2421.2	1852.5	1658.7	1288.5	1035.0	780.0	624.0	525.0	453.0	366.5	304.7	161.0
1.70V/cell	2577.6	1959.5	1724.2	1332.0	1068.0	802.8	639.7	537.0	462.8	373.1	309.4	163.1
1.65V/cell	2666.5	2064.9	1786.0	1356.1	1085.9	814.9	648.6	543.7	468.3	376.9	312.1	164.3
1.60V/cell	2834.2	2155.0	1851.6	1416.6	1131.1	844.9	670.2	560.3	481.4	385.9	318.8	167.2

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

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	4056.4	3217.5	2880.6	2221.5	1803.9	1376.7	1109.9	938.2	815.7	664.4	556.3	299.6
1.80V/cell	4547.6	3496.0	3149.0	2416.7	1952.7	1469.8	1192.2	1007.5	872.7	709.9	592.8	315.9
1.75V/cell	4600.9	3538.3	3179.8	2482.7	2001.5	1516.6	1217.4	1027.2	888.5	721.4	601.0	319.7
1.70V/cell	4853.6	3713.2	3282.5	2551.3	2054.7	1553.7	1243.7	1047.6	905.4	732.6	609.4	323.4
1.65V/cell	4973.0	3893.3	3384.0	2587.5	2081.7	1572.7	1257.9	1058.3	914.5	739.3	614.1	325.7
1.60V/cell	5240.4	4020.4	3475.2	2680.7	2152.6	1621.1	1293.2	1086.0	936.3	754.4	625.5	331.1



LP Series-Battery LP2-3000(2V3000Ah)

Applications

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

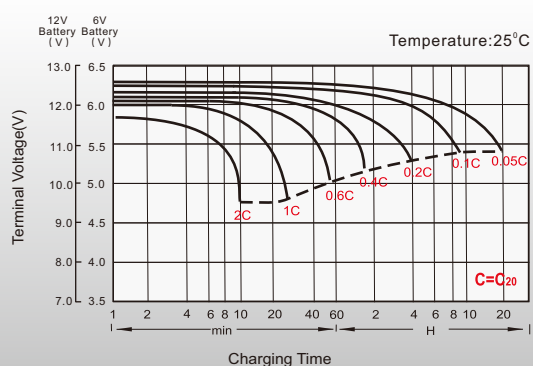
General Features

- 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

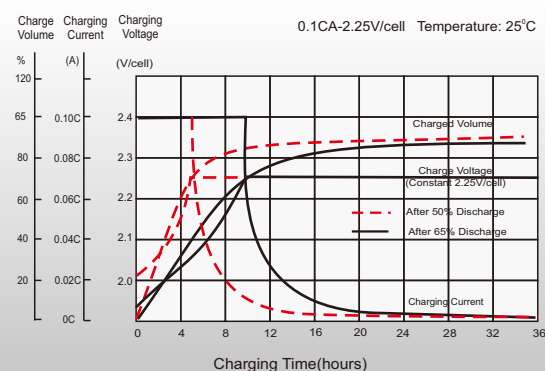
Standards

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

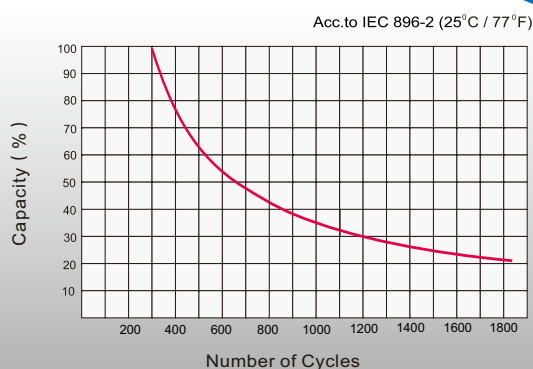
Discharge Characteristics



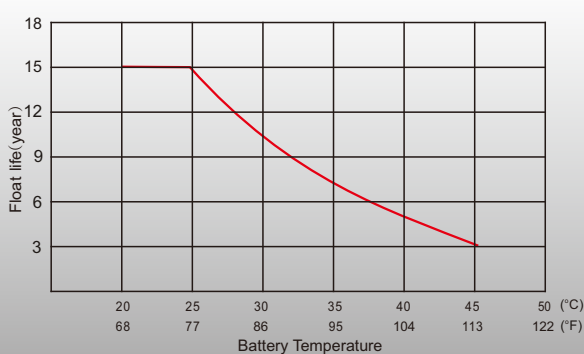
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



Sales Office

Marstech Systems Pte Ltd

Add:Block 24,Sin Ming Lane #05-107 Midview City, Singapore
Tel : +65 66775598
www.marstech.com.sg