



LP Series - Battery

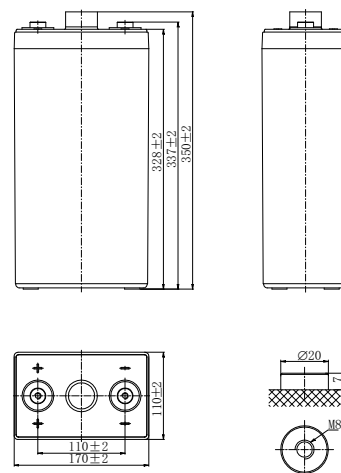
LP2-250(2V250Ah)

Specifications of LP2-250

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	250Ah
Dimension	Length	170±2mm(6.69inches)
	Width	110±2mm(4.33 inches)
	Container Height	328±3mm(12.91inches)
	Total Height	350±3mm(13.78inches)
Approx Weight	13.8kg (30.4 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity(25°C)	262.0 Ah	C20(13.1A, 1.80V/cell)
	250.0 Ah	C10(25.0A, 1.80V/cell)
	217.5 Ah	C5(43.5A, 1.75V/cell)
	189.0 Ah	C3(63.0A, 1.75V/cell)
	151.8 Ah	C1(151.8A, 1.60V/cell)
Max. Discharge Current	2000A (5s)	
Internal Resistance(25°C)	Approx 1.0mΩ	
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 75.0A Voltage	
	2.25V~2.3 V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 75.0AVoltage	
	2.4V~2.5V 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	257.5	231.8	191.7	152.0	124.8	74.9	57.9	47.6	40.5	35.4	28.5	23.9	12.7
1.80V/cell	292.5	258.0	205.7	159.9	132.5	79.1	60.8	49.7	42.2	37.0	29.6	25.0	13.1
1.75V/cell	321.4	278.1	217.8	168.2	138.3	82.3	63.0	51.4	43.5	37.8	30.2	25.3	13.3
1.70V/cell	343.0	297.4	228.5	174.5	143.1	84.8	64.7	52.5	44.3	38.5	30.6	25.5	13.4
1.65V/cell	361.5	312.1	239.7	182.1	148.3	87.3	66.1	53.6	45.2	39.2	31.1	25.8	13.6
1.60V/cell	379.0	323.7	248.0	187.0	151.8	89.4	67.5	54.4	45.9	39.7	31.5	26.1	13.7

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	487.6	440.8	366.4	292.3	241.3	145.8	113.2	93.3	79.8	69.9	56.6	47.5	25.2
1.80V/cell	546.7	485.6	389.9	305.4	254.9	153.0	118.2	97.1	82.8	72.7	58.6	49.6	26.1
1.75V/cell	592.1	517.4	409.8	319.3	264.7	158.7	122.2	100.1	85.0	74.2	59.5	50.1	26.3
1.70V/cell	625.5	548.6	426.4	329.0	272.6	162.7	125.0	101.9	86.2	75.4	60.4	50.5	26.6
1.65V/cell	651.1	569.5	443.9	341.4	280.8	166.9	127.2	103.7	87.8	76.5	61.1	51.1	26.9
1.60V/cell	671.4	583.9	454.6	347.4	285.4	169.8	129.2	104.7	88.7	77.3	61.8	51.6	27.1



LP Series-Battery

LP2-250(2V250Ah)

Applications

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

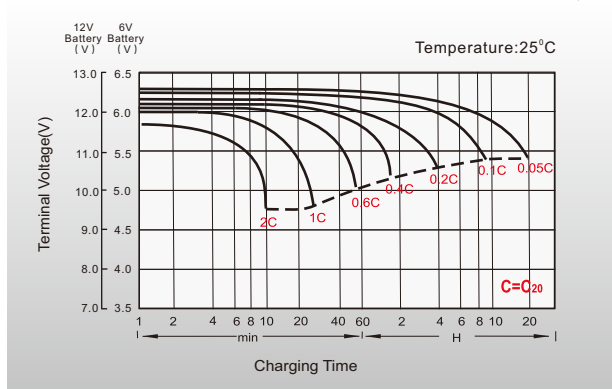
General Features

- 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

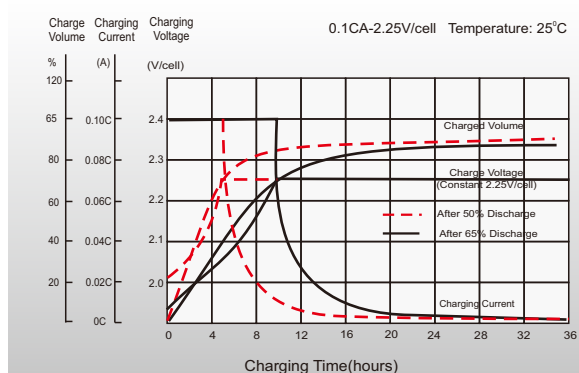
Standards

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

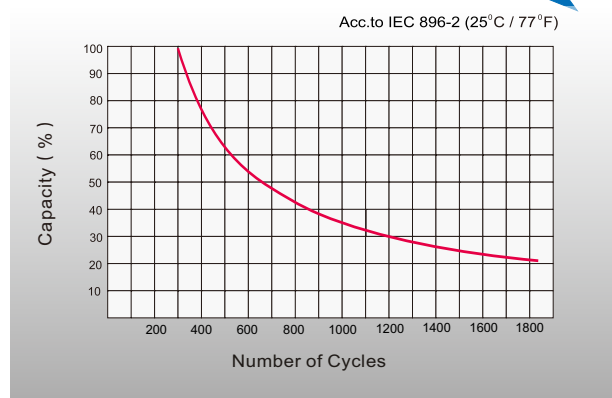
Discharge Characteristics



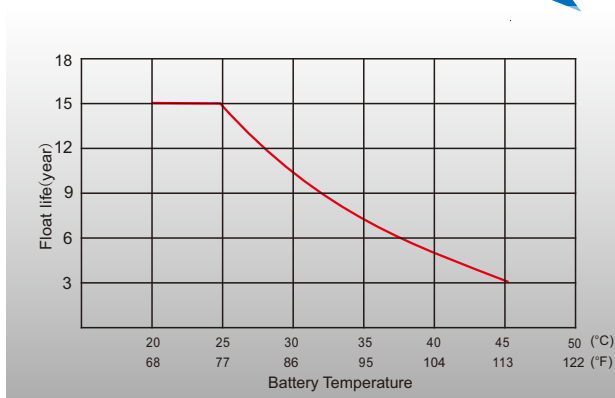
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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