



LP Series - Battery

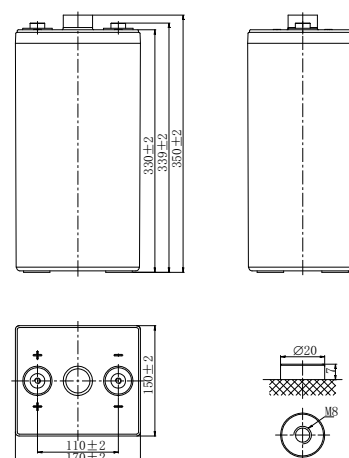
LP2-350(2V350Ah)

Specifications of LP2-350

Rated Voltage	2V	
Nominal Capacity	$C_{10}, 1.80V/\text{cell}$	350Ah
Dimension	Length	$170 \pm 2\text{mm}$ (6.69 inches)
	Width	$150 \pm 2\text{mm}$ (5.91 inches)
	Container Height	$330 \pm 2\text{mm}$ (12.99 inches)
	Total Height	$350 \pm 2\text{mm}$ (13.78 inches)
Approx Weight	19.3kg (42.6 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	372.0 Ah	$C_{20}(18.6A, 1.80V/\text{cell})$
	350.0 Ah	$C_{10}(35.0A, 1.80V/\text{cell})$
	306.5 Ah	$C_5(61.3A, 1.75V/\text{cell})$
	273.0 Ah	$C_3(91.0A, 1.75V/\text{cell})$
	220.2 Ah	$C_1(220.2A, 1.60V/\text{cell})$
Max. Discharge Current	2800A (5s)	
Internal Resistance(25°C)	Approx 0.75mΩ	
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 105.0A Voltage	
	2.25V~2.3 V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 105.0AVoltage	
	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	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	350.6	305.5	249.9	197.5	172.9	132.9	107.7	81.9	65.9	55.6	48.3	39.2	32.8	17.6
1.80V/cell	407.8	352.0	282.5	220.9	191.3	145.4	117.2	88.6	71.0	59.9	51.8	42.0	35.0	18.6
1.75V/cell	31.3	369.4	295.2	229.9	198.4	150.3	120.7	91.0	72.8	61.3	52.9	42.8	35.5	18.8
1.70V/cell	455.9	388.7	315.3	238.6	205.7	155.4	124.6	93.7	74.6	62.6	54.0	43.5	36.1	19.0
1.65V/cell	470.2	399.7	337.0	244.0	210.0	158.2	126.7	95.1	75.7	63.4	54.6	44.0	36.4	19.2
1.60V/cell	504.0	425.6	340.9	256.6	220.2	165.3	132.0	98.6	78.2	65.4	56.2	45.0	37.2	19.5

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

F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	673.6	588.6	482.9	383.0	336.1	259.2	210.5	160.6	129.5	109.5	95.2	77.5	64.9	35.0
1.80V/cell	775.2	671.7	541.4	425.2	369.4	281.9	227.8	173.1	139.1	117.5	101.8	82.8	69.2	36.9
1.75V/cell	811.5	698.0	561.0	439.0	380.4	289.6	233.5	176.9	142.0	119.8	103.7	84.2	70.1	37.3
1.70V/cell	848.0	727.2	593.6	452.1	391.6	297.7	239.7	181.3	145.1	122.2	105.6	85.5	71.1	37.7
1.65V/cell	868.9	743.1	628.6	460.0	397.9	301.9	242.9	183.5	146.8	123.5	106.7	86.2	71.6	38.0
1.60V/cell	915.0	778.8	630.3	478.6	413.3	312.8	251.1	189.1	150.9	126.7	109.2	88.0	73.0	38.6



LP Series-Battery

LP2-350(2V350Ah)

Applications

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

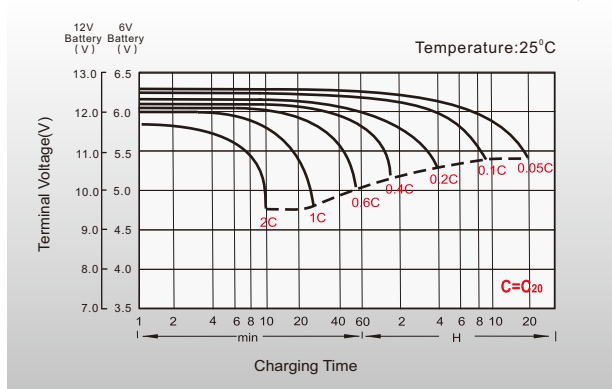
General Features

- 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

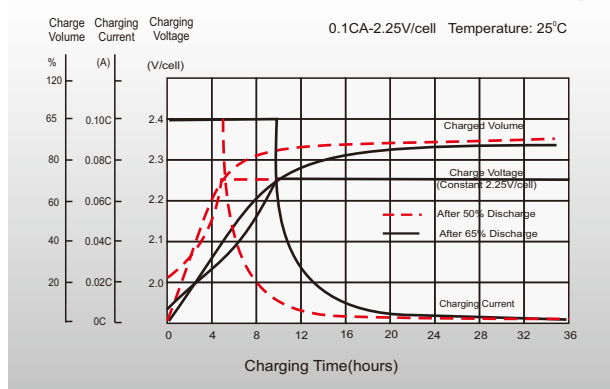
Standards

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

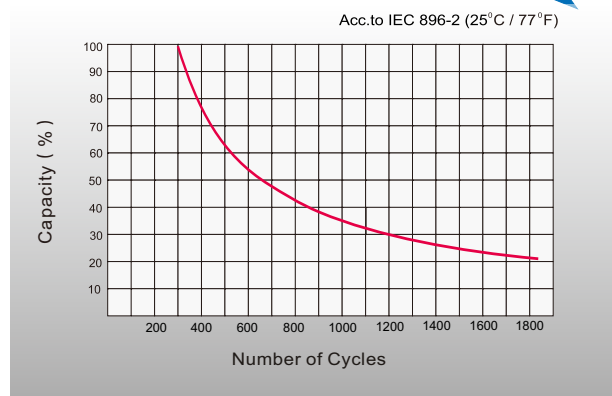
Discharge Characteristics



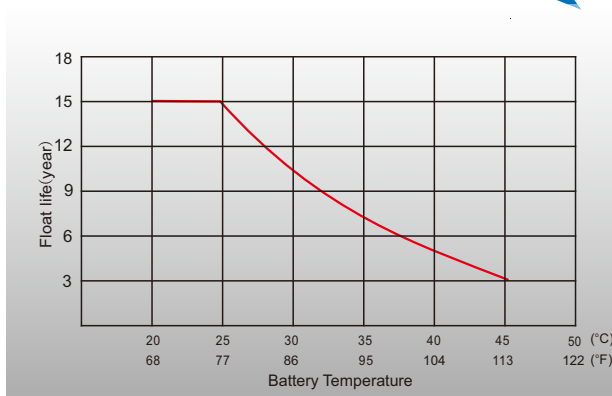
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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