



LP Series - Battery

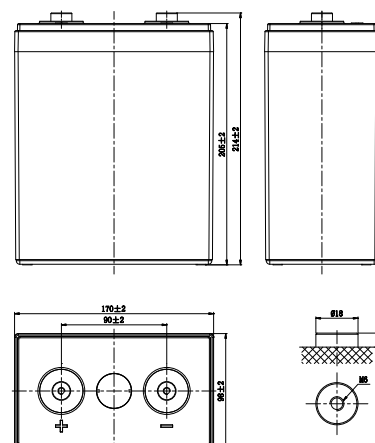
LP2-150(2V150Ah)

Specifications of LP2-150

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	150Ah
Dimension	Length	170±2mm(6.69inches)
	Width	98±2mm(3.86 inches)
	Container Height	205±2mm(8.07 inches)
	Total Height	214±2mm(8.43 inches)
Approx Weight	8.4kg (18.5 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity(25°C)	157.6 Ah	C20(7.88A, 1.80V/cell)
	150.0 Ah	C10(15.0A, 1.80V/cell)
	133.0 Ah	C5(26.6A, 1.75V/cell)
	115.2 Ah	C3(38.4A, 1.75V/cell)
	96.5 Ah	C1(96.5A, 1.60V/cell)
Max. Discharge Current	1200A (5s)	
Internal Resistance(25°C)	Approx 0.9mΩ	
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 45.0A Voltage	
	2.25V~2.3 V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 45.0A Voltage	
	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	175.1	137.7	123.2	93.0	78.4	52.9	44.7	35.5	29.0	24.8	22.3	17.5	14.0	7.36
1.80V/cell	198.4	155.7	137.3	98.5	83.0	55.9	47.1	37.5	30.3	25.7	23.1	17.9	15.0	7.88
1.75V/cell	214.8	168.1	143.2	102.1	88.1	59.3	49.2	38.4	31.5	26.6	23.8	18.2	15.2	7.99
1.70V/cell	228.1	178.2	145.0	104.1	92.1	61.9	51.0	39.6	32.2	27.0	24.2	18.5	15.4	8.07
1.65V/cell	234.8	183.1	147.2	105.7	95.4	64.0	52.6	40.7	33.0	27.5	24.6	18.8	15.5	8.15
1.60V/cell	242.1	187.8	149.5	107.2	96.5	65.7	53.5	41.5	33.4	27.9	24.9	19.0	15.7	8.23

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	331.5	261.9	225.8	178.8	125.9	96.0	79.0	60.3	49.6	45.4	40.2	29.9	25.0	13.1
1.80V/cell	370.8	293.0	251.6	188.2	135.4	103.4	85.3	64.6	52.4	48.0	42.3	30.9	25.4	13.3
1.75V/cell	395.8	312.7	262.6	193.8	142.4	108.0	88.6	66.6	54.1	49.6	43.5	31.3	25.7	13.5
1.70V/cell	416.1	328.7	265.9	196.3	148.8	111.7	90.8	68.4	55.6	50.6	44.2	31.6	26.0	13.6
1.65V/cell	422.8	334.0	270.0	198.1	155.3	115.7	93.4	70.4	57.0	51.1	44.7	31.9	26.3	13.8
1.60V/cell	428.8	338.7	274.0	199.1	161.5	119.3	95.4	71.8	57.7	51.8	45.4	32.4	26.7	14.0



LP Series-Battery

LP2-150(2V150Ah)

Applications

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

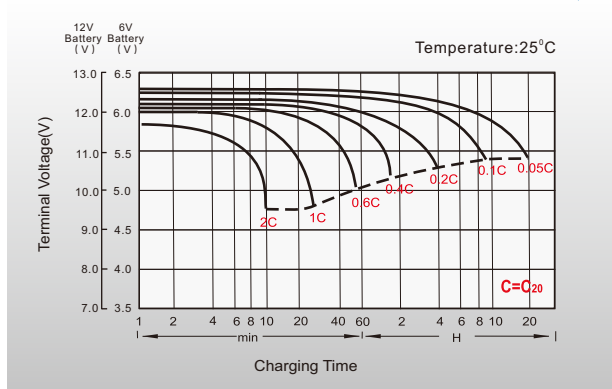
General Features

- 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

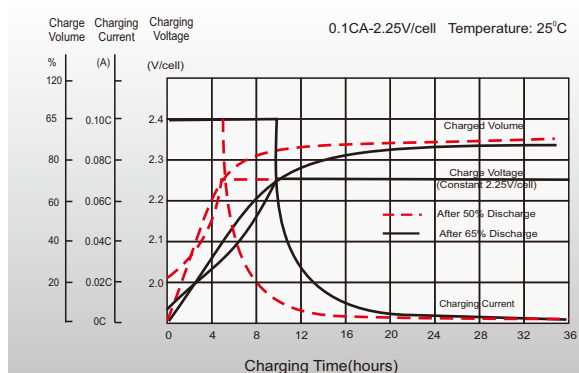
Standards

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

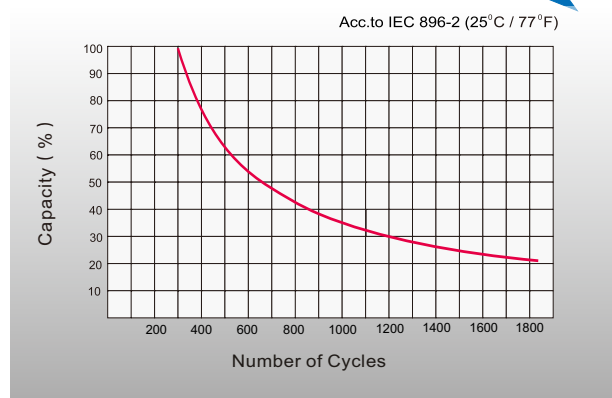
Discharge Characteristics



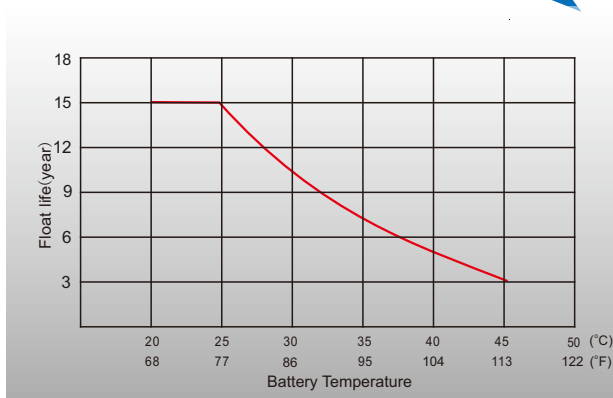
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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