



LP Series - Battery

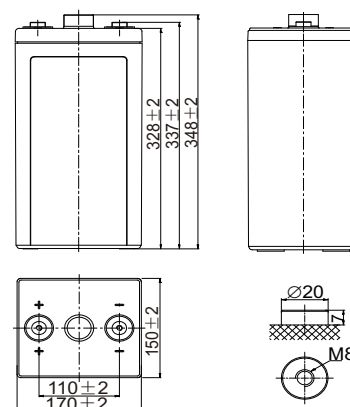
LP2-300(2V300Ah)

Specifications of LP2-300

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	300Ah
Dimension	Length	170±2mm(6.69inches)
	Width	150±2mm(5.91 inches)
	Container Height	328±3mm(12.91inches)
	Total Height	350±3mm(13.78inches)
Approx Weight	17.7kg (39.0 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity(25°C)	316.0 Ah	C20(15.8A, 1.80V/cell)
	300.0 Ah	C10(30.0A, 1.80V/cell)
	261.0 Ah	C5(52.2A, 1.75V/cell)
	226.8 Ah	C3(75.6A, 1.75V/cell)
	182.1 Ah	C1(182.1A, 1.60V/cell)
Max. Discharge Current	2400A (5s)	
Internal Resistance(25°C)	Approx 0.7mΩ	
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 90.0A Voltage	
	2.25V~2.3 V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 90.0AVoltage	
	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	309.0	278.1	230.0	182.4	149.7	89.9	69.5	57.1	48.6	42.5	34.2	28.7	15.2
1.80V/cell	351.0	309.6	246.8	191.9	159.0	94.9	72.9	59.6	50.6	44.4	35.5	30.0	15.8
1.75V/cell	385.6	333.7	261.4	201.8	165.9	98.8	75.6	61.7	52.2	45.4	36.2	30.3	15.9
1.70V/cell	411.6	356.9	274.3	209.4	171.7	101.7	77.6	63.0	53.1	46.2	36.8	30.6	16.1
1.65V/cell	433.8	374.5	287.7	218.5	177.9	104.8	79.3	64.4	54.2	47.0	37.3	31.0	16.3
1.60V/cell	454.8	388.4	297.6	224.4	182.1	107.3	81.0	65.3	55.0	47.7	37.8	31.4	16.5

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	585.1	528.9	439.6	350.7	289.6	174.9	135.8	111.9	95.7	83.9	67.9	57.0	30.3
1.80V/cell	656.1	582.7	467.9	366.5	305.8	183.6	141.8	116.5	99.3	87.3	70.3	59.6	31.3
1.75V/cell	710.6	620.9	491.7	383.1	317.7	190.5	146.7	120.1	102.0	89.1	71.4	60.1	31.6
1.70V/cell	750.7	658.3	511.6	394.8	327.1	195.3	150.0	122.2	103.5	90.5	72.5	60.7	31.9
1.65V/cell	781.3	683.4	532.7	409.7	337.0	200.3	152.6	124.4	105.3	91.8	73.3	61.3	32.2
1.60V/cell	805.6	700.7	545.5	416.8	342.5	203.8	155.1	125.6	106.4	92.8	74.1	61.9	32.6



LP Series-Battery

LP2-300(2V300Ah)

Applications

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

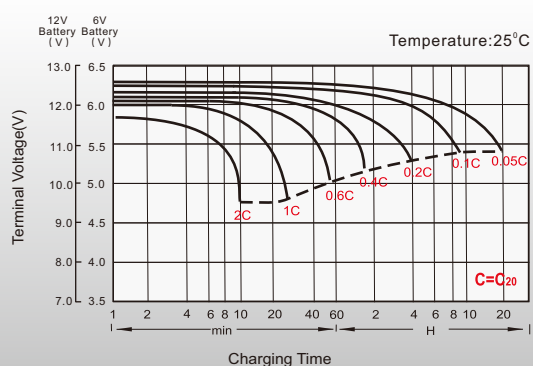
General Features

- 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

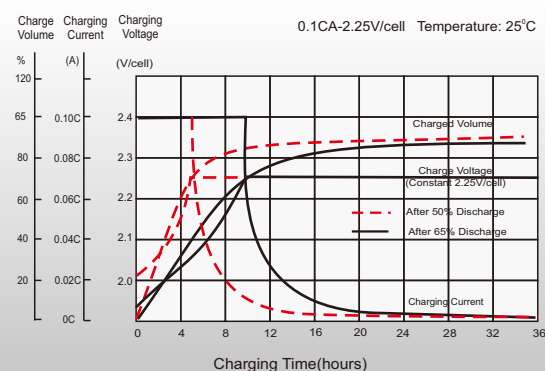
Standards

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

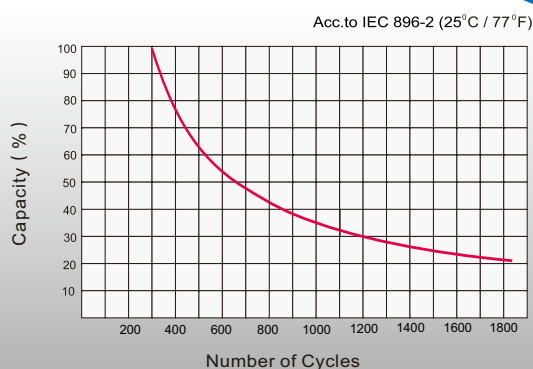
Discharge Characteristics



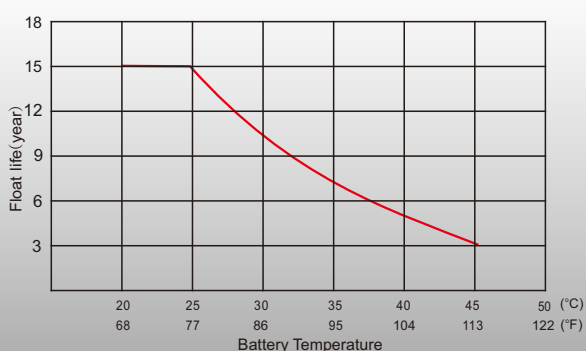
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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