



# LP Series-General Purpose LP2-200(2V200Ah)

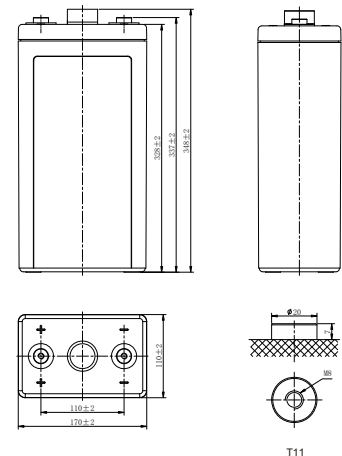


## Specifications

Rated Voltage	2V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	200Ah
Dimension	Length	170±2mm (6.69 inches)
	Width	110±2mm (4.33 inches)
	Container Height	328±2mm (12.9 inches)
	Total Height	348±2mm (13.7 inches)
Approx Weight	13.40kg (29.6 lbs)	
Terminal	T11(M8)	
Container Material	ABS	
Rated Capacity(25°C)	212.0 Ah	C20(10.6A, 1.80V/cell)
	200.0 Ah	C10(20.0A, 1.80V/cell)
	175.0 Ah	C5(35.0A, 1.75V/cell)
	156.0 Ah	C3(52.0A, 1.75V/cell)
	122.7 Ah	C1(122.7A, 1.60V/cell)
Max. Discharge Current	1600A (5s)	
Internal Resistance(25°C)	Approx 0.9mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C (5 ~ 122°F)
	Charge	-20 ~ 40°C (-4 ~ 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 60A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 60A. Voltage 2.40V~2.50V 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	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



T11

## 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	139.2	110.1	96.3	76.0	61.5	46.8	37.7	31.8	27.6	22.4	18.7	10.0
1.80V/cell	157.4	123.1	106.6	83.1	66.9	50.6	40.6	34.2	29.6	24.0	20.0	10.6
1.75V/cell	164.5	128.1	110.5	85.9	69.0	52.0	41.6	35.0	30.2	24.4	20.3	10.7
1.70V/cell	175.6	132.9	114.6	88.8	71.2	53.5	42.6	35.8	30.9	24.9	20.6	10.9
1.67V/cell	187.8	135.9	117.0	90.4	72.4	54.3	43.2	36.2	31.2	25.1	20.8	11.0
1.60V/cell	189.9	142.9	122.7	94.4	75.4	56.3	44.7	37.4	32.1	25.7	21.3	11.1

## 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	269.0	213.4	187.2	148.1	120.3	91.8	74.0	62.5	54.4	44.3	37.1	20.0
1.80V/cell	301.6	236.9	205.8	161.1	130.2	98.9	79.5	67.2	58.2	47.3	39.5	21.1
1.75V/cell	312.6	244.6	211.9	165.5	133.4	101.1	81.2	68.5	59.2	48.1	40.1	21.3
1.70V/cell	330.7	251.9	218.2	170.1	137.0	103.6	82.9	69.8	60.4	48.8	40.6	21.6
1.67V/cell	350.2	256.3	221.7	172.5	138.8	104.8	83.9	70.6	61.0	49.3	40.9	21.7
1.60V/cell	351.2	266.7	230.3	178.7	143.5	108.1	86.2	72.4	62.4	50.3	41.7	22.1



# LP Series-General Purpose LP2-200(2V200Ah)



## Applications

- Tele-communication central station (wired or cellular)
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.
- Uninterruptable Power System (UPS- for Telecom)

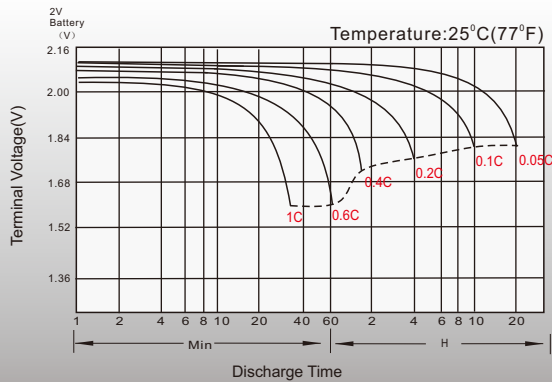
## General Features

- 15 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

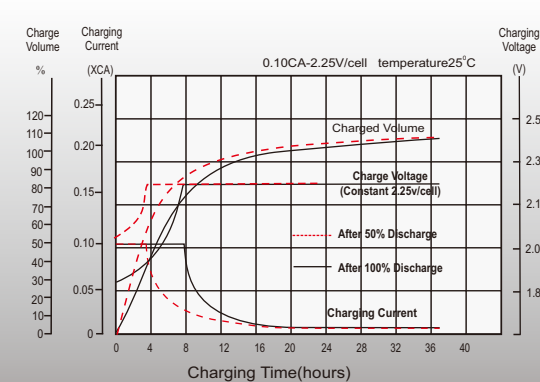
## Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF16949, ISO45001,ISO 9001 and ISO 14001 certified production facilities

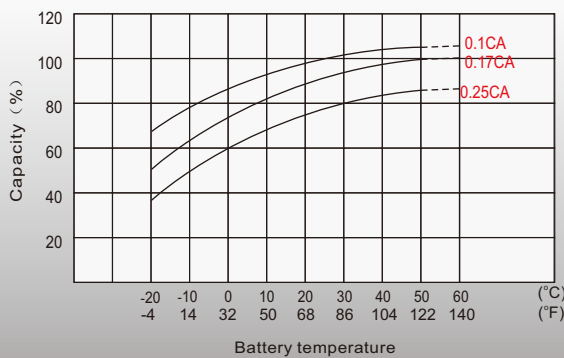
## Discharge Characteristics



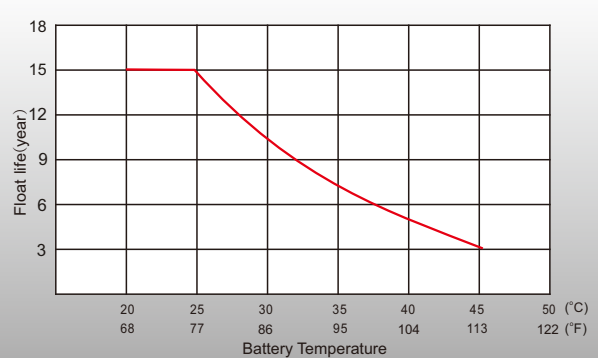
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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