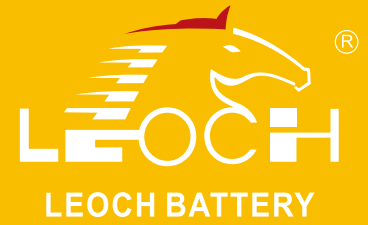


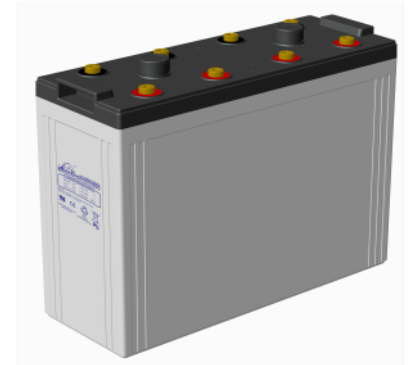


# LP Series-General Purpose LP2-1200(2V1200Ah)

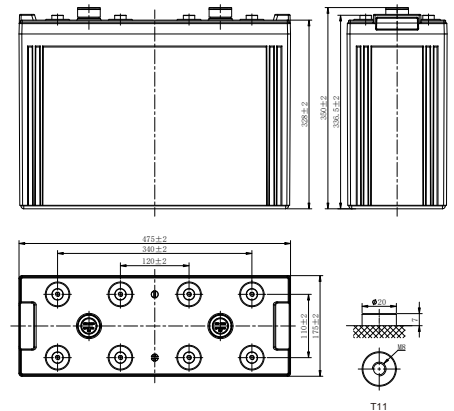


## Specifications

Rated Voltage	2V	
Nominal Capacity	1200.0Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	475±3mm (18.70 inches)
	Width	175±3mm (6.89 inches)
	Container Height	328±3mm (12.91 inches)
	Total Height	350±3mm (13.78 inches)
Approx Weight	63.8 Kg (140.7 lbs)	
Terminal	T11(M8)	
Container Material	ABS	
Rated Capacity (25°C)	1280.0 Ah	(20hr, 64.0A, 1.80V/cell)
	1200.0 Ah	(10hr, 120.0A, 1.80V/cell)
	1065.0 Ah	(5hr, 213.0A, 1.75V/cell)
	926.4 Ah	(3hr, 308.8A, 1.75V/cell)
	720.8Ah	(1hr, 720.8A, 1.60V/cell)
Max. Discharge Current	9600A (5s)	
Internal Resistance (25°C)	Approx 0.33mΩ	
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 360.0A Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
	Initial Charging Current less than 360.0A 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



## Constant Current Discharge (Amperes) at 25 °C (77°F)

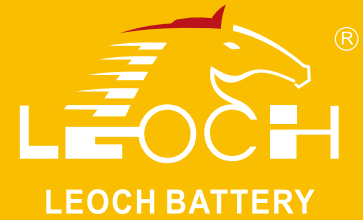
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	900.4	721.9	601.9	433.0	373.2	284.8	232.9	198.3	173.2	138.6	115.6	61.8
1.80V/cell	966.1	759.5	629.4	473.7	390.0	298.8	243.3	206.6	180.9	144.6	120.0	64.0
1.75V/cell	1023.1	798.6	656.7	489.6	405.6	308.8	251.5	213.0	185.2	147.5	121.6	64.3
1.70V/cell	1073.5	828.7	679.8	506.2	421.8	318.4	257.0	216.6	188.5	150.0	123.0	65.0
1.67V/cell	1126.1	864.8	704.2	515.3	435.6	325.6	262.5	221.3	191.8	152.3	124.4	65.7
1.60V/cell	1164.7	888.0	720.8	538.3	444.0	331.2	266.2	224.5	194.4	154.5	126.2	66.2

## 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	1720.8	1388.0	1164.3	844.2	725.9	556.6	456.7	390.6	342.2	275.0	229.8	123.1
1.80V/cell	1831.5	1450.7	1210.7	918.3	755.0	581.2	475.5	405.2	356.1	286.1	238.3	127.3
1.75V/cell	1924.8	1516.4	1257.7	943.4	782.0	599.1	490.0	416.3	363.4	291.1	241.1	127.7
1.70V/cell	2002.6	1562.6	1294.9	969.5	809.9	615.4	498.7	422.2	369.3	295.8	243.8	129.1
1.67V/cell	2085.0	1621.5	1333.8	983.3	832.8	626.5	507.6	429.8	374.5	299.5	246.3	130.2
1.60V/cell	2134.8	1649.5	1355.8	1018.7	843.6	634.0	512.5	434.2	378.5	303.3	249.4	131.0



# LP Series-General Purpose LP2-1200(2V1200Ah)



## 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)

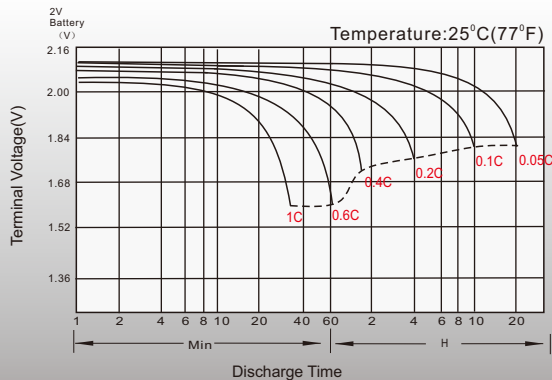
## General Features

- 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

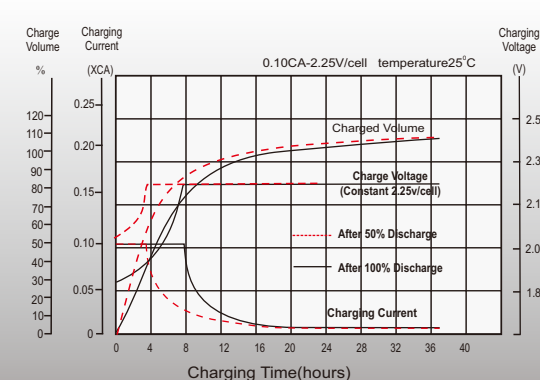
## Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF 16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities

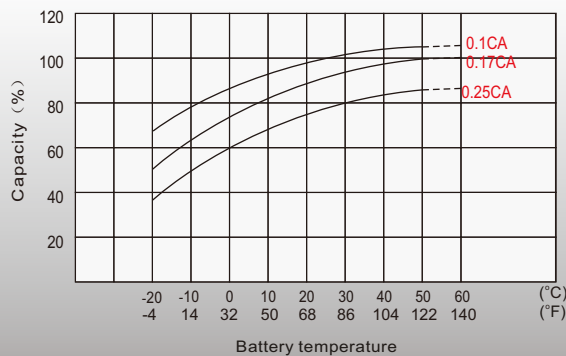
## Discharge Characteristics



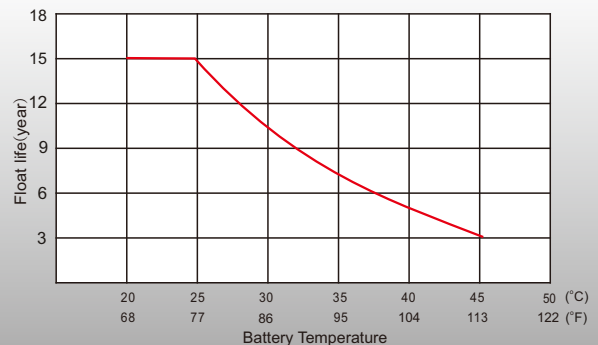
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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