



LP Series-General Purpose LP2-3000(2V3000Ah)

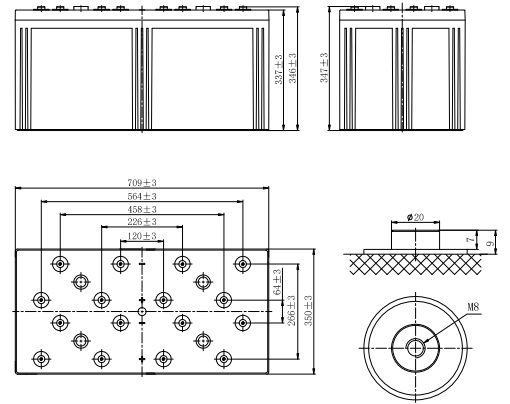


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	3000Ah
Dimension	Length	709±3mm (27.9 inches)
	Width	350±3mm (13.8 inches)
	Container Height	337±3mm (13.3 inches)
	Total Height	347±3mm (13.7 inches)
Approx Weight	183.0kg (403.4 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	3180.0 Ah	C20(159.0A, 1.80V/cell)
	3000.0 Ah	C10(300.0A, 1.80V/cell)
	2625.0 Ah	C5(525.0A, 1.75V/cell)
	2340.0 Ah	C3(780.0A, 1.75V/cell)
Max. Discharge Current	24000A (5s)	
	Internal Resistance(25°C)	Approx 0.2mΩ
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 900A. Voltage 2.23V~2.27V at 25°C(77°F)Temp. Coefficient -3mV/°C	
	Equalization Use	Initial Charging Current less than 900A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -4mV/°C
Cycle Use		Initial Charging Current less than 900A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C
	Effect of temp. to Capacity	40°C (104°F)
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	2098.8	1659.4	1481.9	1139.3	923.0	702.2	564.8	476.6	413.7	336.2	281.1	150.7
1.80V/cell	2372.9	1816.3	1631.1	1246.6	1004.2	752.7	608.8	513.3	443.8	360.0	300.0	159.0
1.75V/cell	2421.2	1852.5	1658.7	1288.5	1035.0	780.0	624.0	525.0	453.0	366.5	304.7	161.0
1.70V/cell	2577.6	1959.5	1724.2	1332.0	1068.0	802.8	639.7	537.0	462.8	373.1	309.4	163.1
1.67V/cell	2666.5	2064.9	1786.0	1356.1	1085.9	814.9	648.6	543.7	468.3	376.9	312.1	164.3
1.60V/cell	2834.2	2155.0	1851.6	1416.6	1131.1	844.9	670.2	560.3	481.4	385.9	318.8	167.2

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	4056.4	3217.5	2880.6	2221.5	1803.9	1376.7	1109.9	938.2	815.7	664.4	556.3	299.6
1.80V/cell	4547.6	3496.0	3149.0	2416.7	1952.7	1469.8	1192.2	1007.5	872.7	709.9	592.8	315.9
1.75V/cell	4600.9	3538.3	3179.8	2482.7	2001.5	1516.6	1217.4	1027.2	888.5	721.4	601.0	319.7
1.70V/cell	4853.6	3713.2	3282.5	2551.3	2054.7	1553.7	1243.7	1047.6	905.4	732.6	609.4	323.4
1.67V/cell	4973.0	3893.3	3384.0	2587.5	2081.7	1572.7	1257.9	1058.3	914.5	739.3	614.1	325.7
1.60V/cell	5240.4	4020.4	3475.2	2680.7	2152.6	1621.1	1293.2	1086.0	936.3	754.4	625.5	331.1



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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)

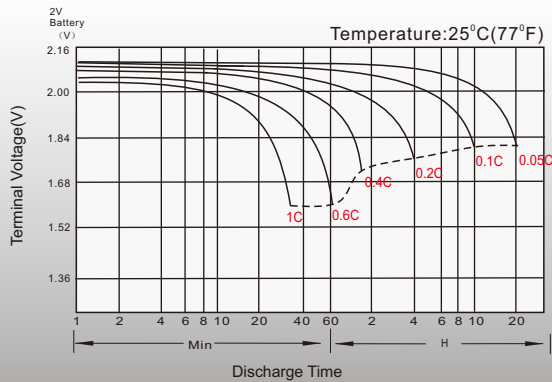
General Features

- 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

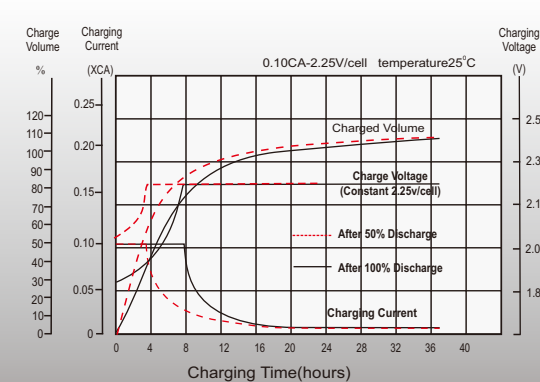
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF 16949, ISO430001, ISO 9001 and ISO 130001 certified production facilities

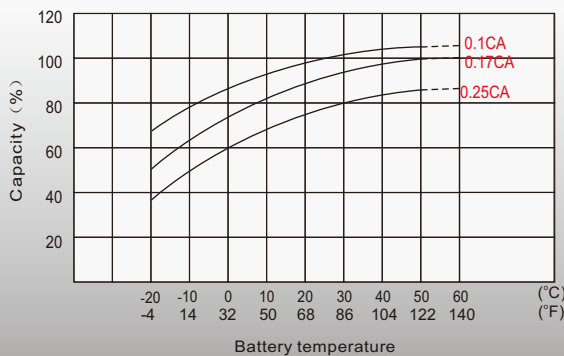
Discharge Characteristics



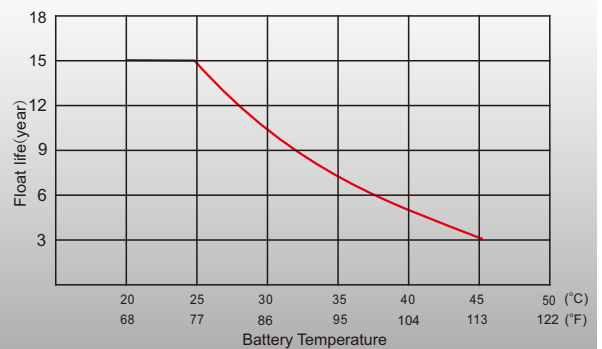
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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