

LP SERIES-General Purpose

LP2-3000 (2V3000AH)

Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	3000.0AH	
Dimensions	Length	709±3mm (27.91 inches)
	Width	350±3mm (13.78 inches)
	Container Height	337±3mm (13.27 inches)
	Total Height (with Terminal)	347±3mm (13.66 inches)
Approx Weight	Approx 181 kg (399.1lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	3150.0 AH/157.5A	(20hr, 1.80V/cell, 25°C/77°F)
	3000.0 AH/300.0A	(10hr, 1.80V/cell, 25°C/77°F)
	2610.0 AH/522.0A	(5hr, 1.75V/cell, 25°C/77°F)
	2268.0 AH/756.0A	(3hr, 1.75V/cell, 25°C/77°F)
	1821.0 AH/1821.0A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	24000A (5s)	
Internal Resistance	Approx 0.2mΩ	
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)	
Cycle Use	Initial Charging Current less than 900.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	No limit on Initial Charging Current Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Standby Use	40°C (104°F)	103%
Capacity affected by Temperature	25°C (77°F)	100%
	0°C (32°F)	86%
	Leoch 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.	
Self Discharge		



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)



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

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2300.4	1824.0	1497.0	899.2	695.0	570.8	486.0	424.5	342.0	286.5	152.0
1.80V/cell	2468.3	1919.0	1590.0	948.7	729.0	596.3	506.4	443.5	355.1	300.0	157.5
1.75V/cell	2613.8	2017.8	1659.0	987.9	756.0	616.5	522.0	454.0	361.9	303.0	159.1
1.70V/cell	2742.5	2093.8	1717.1	1017.0	776.0	630.0	531.0	462.0	367.5	306.0	160.7
1.65V/cell	2876.9	2185.0	1779.0	1047.6	793.0	643.5	542.4	470.0	372.8	309.9	162.7
1.60V/cell	2976.0	2244.0	1821.0	1072.5	810.0	652.5	550.2	476.5	377.6	313.5	164.6

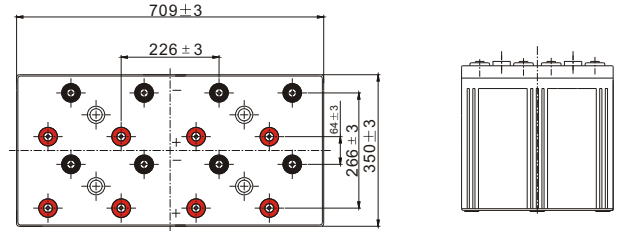
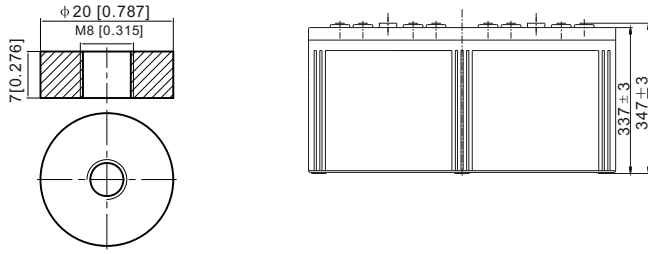
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	4396.2	3507.0	2895.6	1749.0	1358.2	1119.4	957.4	838.8	678.7	569.8	302.6
1.80V/cell	4679.1	3665.3	3058.4	1836.4	1418.0	1165.5	993.2	872.8	702.6	595.8	313.1
1.75V/cell	4917.4	3831.4	3177.0	1904.9	1466.6	1200.9	1020.3	890.7	714.3	601.0	315.9
1.70V/cell	5116.2	3948.1	3270.9	1952.7	1499.8	1222.2	1034.9	905.1	724.7	606.6	318.8
1.65V/cell	5326.8	4096.9	3369.6	2002.9	1525.9	1244.2	1053.3	917.9	733.2	613.3	322.5
1.60V/cell	5455.0	4168.2	3425.3	2037.8	1550.5	1256.1	1064.3	927.7	741.3	619.4	325.7

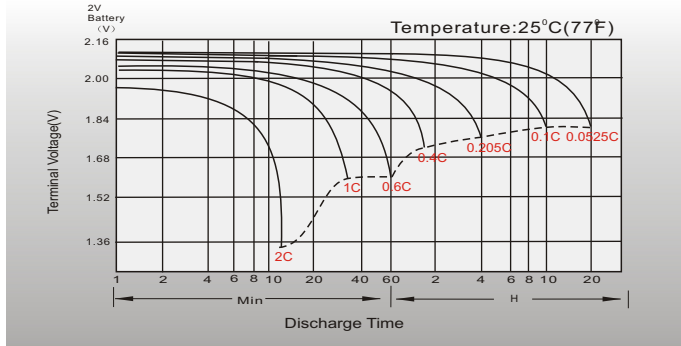
Dimensions

T11 Terminal

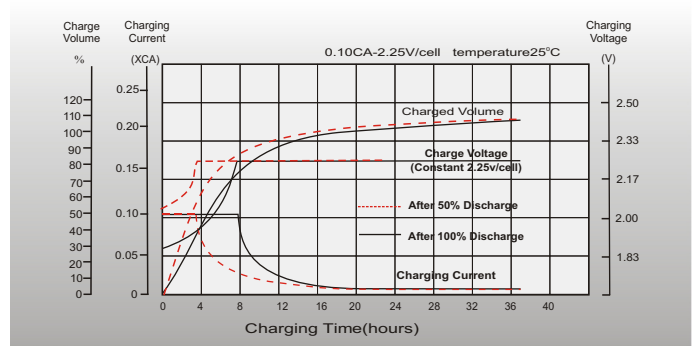
Unit: mm [inches]



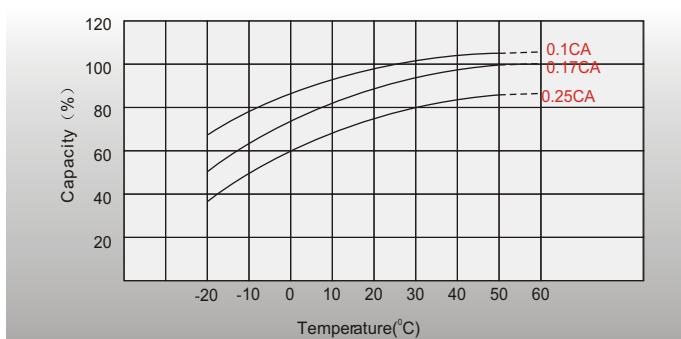
Discharge Characteristics



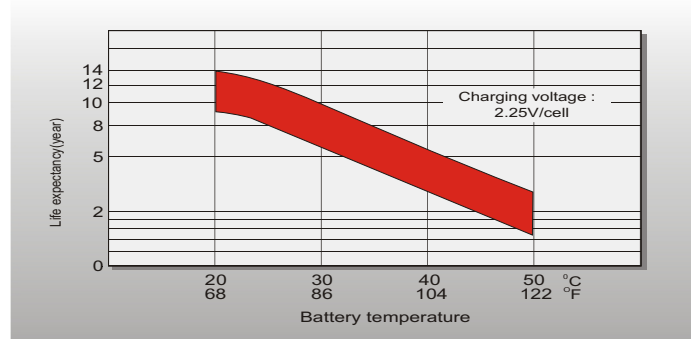
Float Charging Characteristics



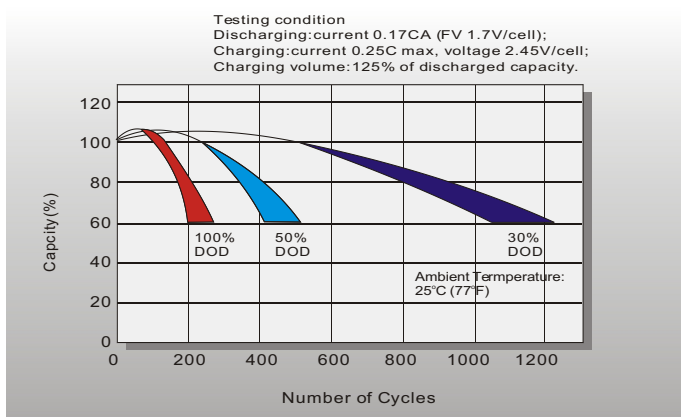
Temperature Effects in Relation to Battery Capacity



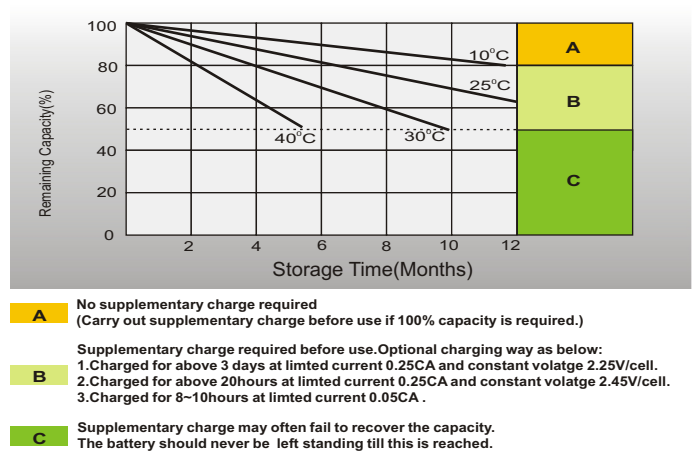
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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