



# LPL Series-Long Life Standby LPL2-800(2V800Ah)

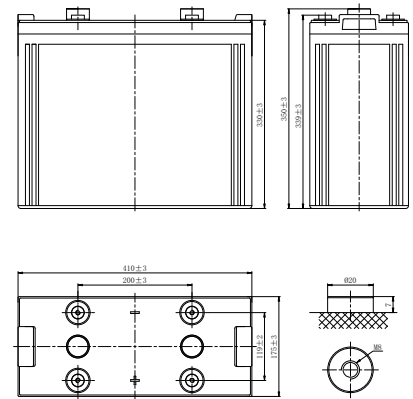


## Specifications

Rated Voltage	2V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	800Ah
Dimension	Length	410±3mm (16.1 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±2mm (13.0 inches)
	Total Height	350±2mm (13.8 inches)
Approx Weight	50.4kg (111.1 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	848.0 Ah	C20(42.4A, 1.80V/cell)
	800.0 Ah	C10(80.0A, 1.80V/cell)
	700.0 Ah	C5(140.0A, 1.75V/cell)
	624.0 Ah	C3(208.0A, 1.75V/cell)
	490.8 Ah	C1(490.8A, 1.60V/cell)
Max. Discharge Current	6400A (5s)	
Internal Resistance(25°C)	Approx 0.4mΩ	
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 240A. Voltage 2.23V~2.27V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Equalization Use	Initial Charging Current less than 240A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -4mV/°C	
Cycle Use	Initial Charging Current less than 240A. 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	LPL 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)

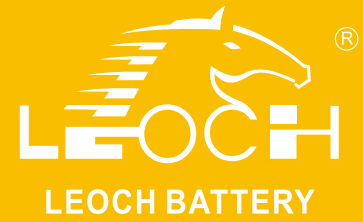
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	556.8	440.2	385.3	303.8	246.1	187.2	150.6	127.1	110.3	89.7	75.0	40.2
1.80V/cell	629.5	492.3	426.4	332.4	267.8	202.6	162.3	136.9	118.3	96.0	80.0	42.4
1.75V/cell	658.0	512.3	442.2	343.6	276.0	208.0	166.4	140.0	120.8	97.7	81.2	42.9
1.70V/cell	702.6	531.7	458.4	355.2	284.8	214.1	170.6	143.2	123.4	99.5	82.5	43.5
1.67V/cell	751.1	543.7	468.0	361.6	289.6	217.3	173.0	145.0	124.9	100.5	83.2	43.8
1.60V/cell	759.7	571.7	490.8	377.8	301.6	225.3	178.7	149.4	128.4	102.9	85.0	44.6

## 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	1076.2	853.6	749.0	592.4	481.0	367.1	296.0	250.2	217.5	177.2	148.4	79.9
1.80V/cell	1206.5	947.5	823.3	644.5	520.7	395.6	317.9	268.7	232.7	189.3	158.1	84.2
1.75V/cell	1250.3	978.5	847.7	662.1	533.7	404.4	324.6	273.9	236.9	192.4	160.3	85.2
1.70V/cell	1322.9	1007.6	872.8	680.4	547.9	414.3	331.6	279.3	241.4	195.4	162.5	86.2
1.67V/cell	1400.8	1025.1	886.7	690.0	555.1	419.4	335.4	282.2	243.9	197.1	163.8	86.8
1.60V/cell	1404.7	1066.6	921.1	714.9	574.0	432.3	344.8	289.6	249.7	201.2	166.8	88.3



# LPL Series-Long Life Standby LPL2-800(2V800Ah)



## 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)
- EPS

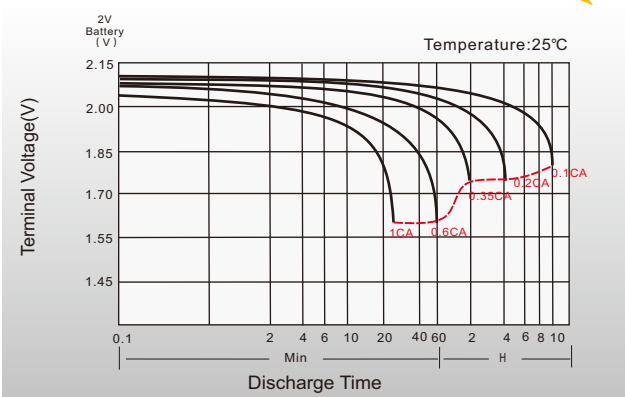
## General Features

- 16 years design life(25°C)
- Grid refining technology and the thicker plates are used to extend the battery standby life and reduce the plate grid corrosion speed
- Using oxygen recombination technology: maintenance-free
- Unique vent valve design: control water losing, prevent air and spark going inside

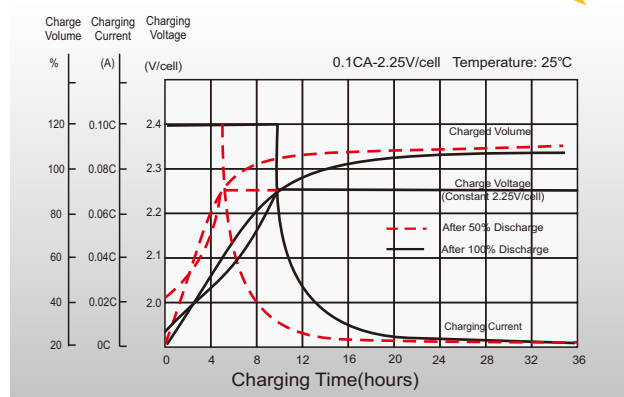
## Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

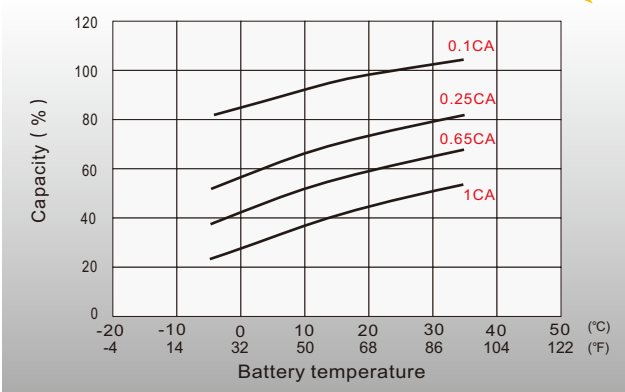
## Discharge Characteristics



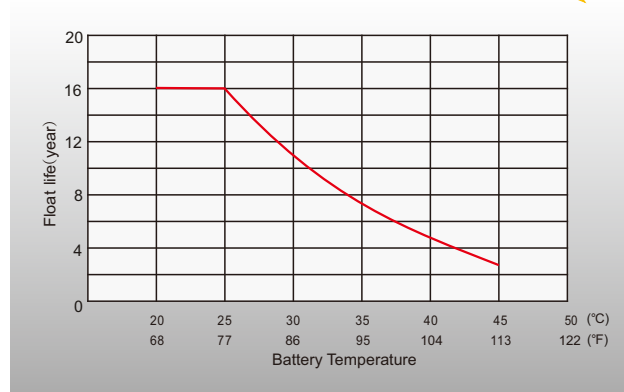
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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