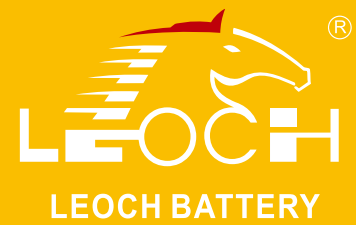




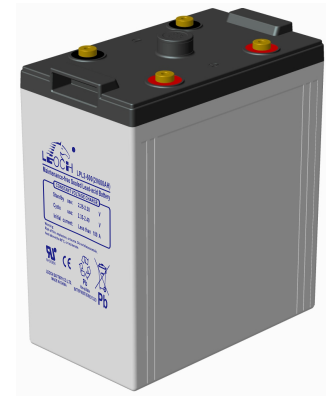
IEEE/UL Battery  
Sizing by  
**MooreU**  
610-952-6067  
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# LPL Series-Long Life Standby LPL2-600(2V600Ah)

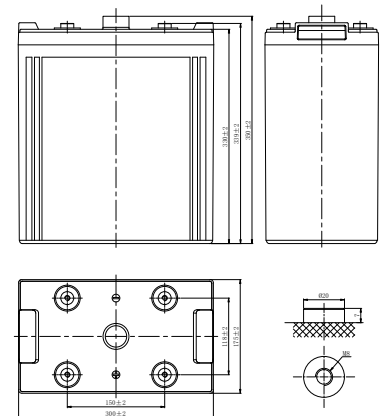


## Specifications

Rated Voltage	2V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	600Ah
Dimension	Length	300±2mm (11.8 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±2mm (13.0 inches)
	Total Height	350±2mm (13.8 inches)
Approx Weight	37.0kg (81.6 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	636.0 Ah	C20(31.8A, 1.80V/cell)
	600.0 Ah	C10(60.0A, 1.80V/cell)
	525.0 Ah	C5(105.0A, 1.75V/cell)
	468.0 Ah	C3(156.0A, 1.75V/cell)
	368.1 Ah	C1(368.1A, 1.60V/cell)
Max. Discharge Current	4800A (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 180A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
	Cycle Use	
Effect of temp. to Capacity	Initial Charging Current less than 180A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	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)

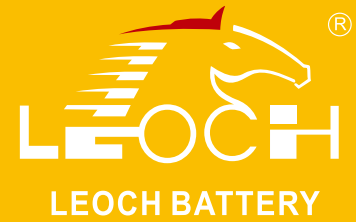
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	417.6	330.2	289.0	227.9	184.6	140.4	113.0	95.3	82.7	67.2	56.2	30.1
1.80V/cell	472.1	369.2	319.8	249.3	200.8	151.9	121.8	102.7	88.8	72.0	60.0	31.8
1.75V/cell	493.5	384.2	331.6	257.7	207.0	156.0	124.8	105.0	90.6	73.3	60.9	32.2
1.70V/cell	526.9	398.8	343.8	266.4	213.6	160.6	127.9	107.4	92.6	74.6	61.9	32.6
1.67V/cell	563.3	407.8	351.0	271.2	217.2	163.0	129.7	108.7	93.7	75.4	62.4	32.9
1.60V/cell	569.8	428.8	368.1	283.3	226.2	169.0	134.0	112.1	96.3	77.2	63.8	33.4

## 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	807.1	640.2	561.7	444.3	360.8	275.3	222.0	187.6	163.1	132.9	111.3	59.9
1.80V/cell	904.9	710.6	617.5	483.3	390.5	296.7	238.4	201.5	174.5	142.0	118.6	63.2
1.75V/cell	937.7	733.8	635.8	496.5	400.3	303.3	243.5	205.4	177.7	144.3	120.2	63.9
1.70V/cell	992.2	755.7	654.6	510.3	410.9	310.7	248.7	209.5	181.1	146.5	121.9	64.7
1.67V/cell	1050.6	768.8	665.0	517.5	416.3	314.5	251.6	211.7	182.9	147.9	122.8	65.1
1.60V/cell	1053.5	800.0	690.8	536.1	430.5	324.2	258.6	217.2	187.3	150.9	125.1	66.2



IEEE/UL Battery  
Sizing by  
**MooreU**  
610-952-6067  
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# LPL Series-Long Life Standby LPL2-600(2V600Ah)

## 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

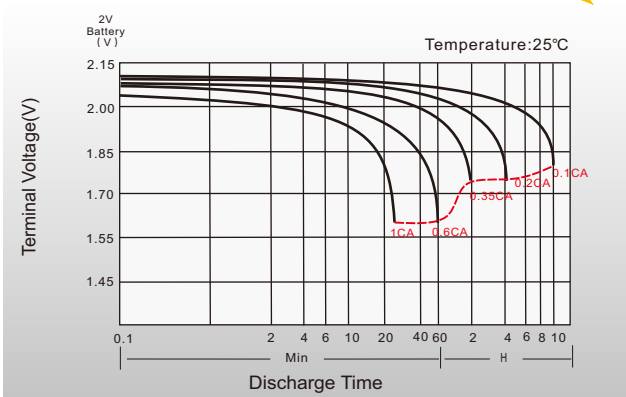
## General Features

- 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

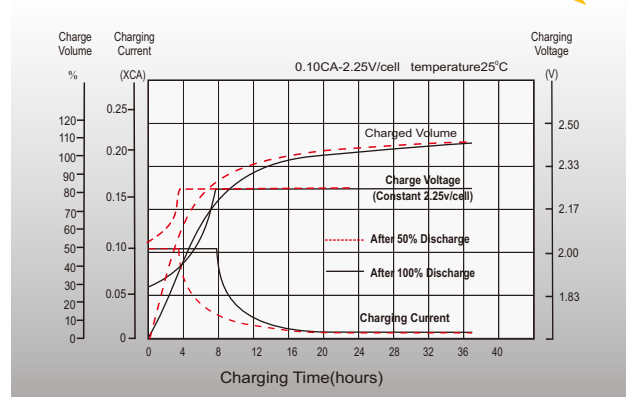
## Standards

- 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

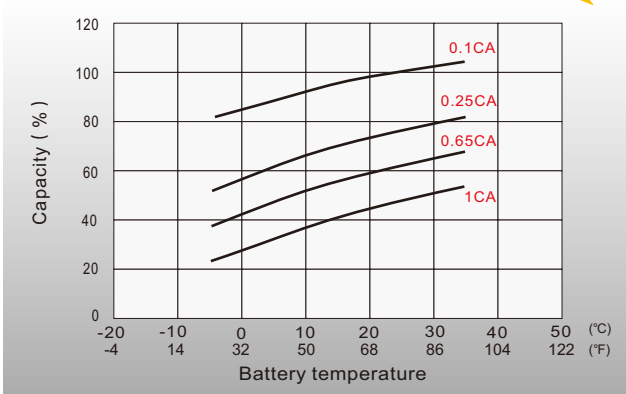
## Discharge Characteristics



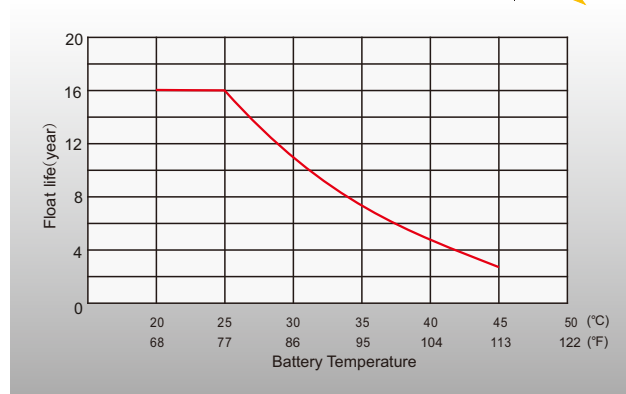
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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