

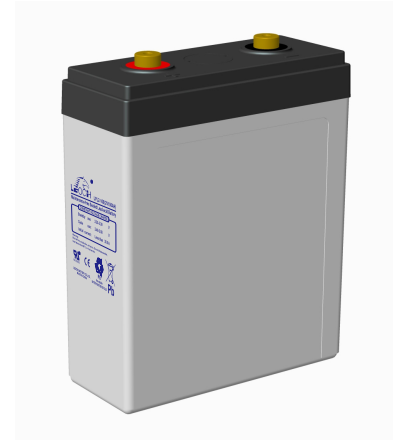


# LPL Series-Long Life Standby LPL2-100(2V100Ah)

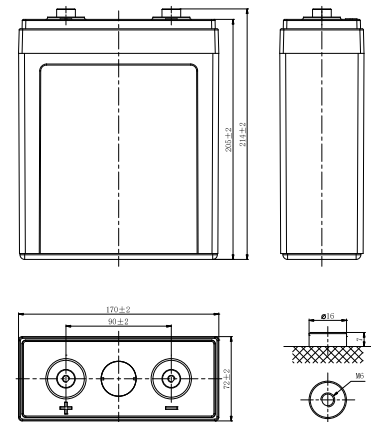


## Specifications

Rated Voltage	2V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	100Ah
Dimension	Length	170±2mm (6.69 inches)
	Width	72±2mm (2.83 inches)
	Container Height	205±2mm (8.07 inches)
	Total Height	214±2mm (8.43 inches)
Approx Weight	5.80kg (12.8 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	105.0 Ah	C20(5.25A, 1.80V/cell)
	100.0 Ah	C10(10.0A, 1.80V/cell)
	88.0 Ah	C5(17.6A, 1.75V/cell)
	76.2 Ah	C3(25.4A, 1.75V/cell)
Max. Discharge Current	800A (5s)	
	Internal Resistance(25°C)	Approx 1.0mΩ
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 30A. Voltage 2.23V~2.27V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Equalization Use	Initial Charging Current less than 30A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -4mV/°C	
Cycle Use	Initial Charging Current less than 30A. 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)

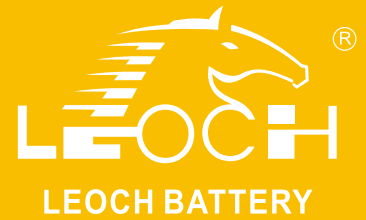
F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	115.4	90.8	81.7	61.3	52.0	35.1	29.6	23.6	19.2	16.4	14.8	11.6	9.30	4.88
1.80V/cell	130.8	102.6	91.0	65.0	55.1	37.1	31.2	25.0	20.1	17.0	15.3	11.9	10.0	5.25
1.75V/cell	141.6	110.8	95.0	67.3	58.4	39.3	32.6	25.4	20.9	17.6	15.8	12.1	10.1	5.30
1.70V/cell	150.4	117.5	96.2	68.7	61.1	41.1	33.9	26.2	21.4	17.9	16.0	12.3	10.2	5.35
1.67V/cell	154.8	120.7	97.7	69.7	63.3	42.5	34.9	27.0	21.9	18.2	16.3	12.5	10.3	5.41
1.60V/cell	159.6	123.8	99.2	70.7	64.0	43.6	35.5	27.5	22.2	18.5	16.5	12.6	10.4	5.46

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

F.V/Time	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	218.6	172.7	149.8	117.9	83.5	63.7	52.4	40.0	32.9	30.1	26.7	19.8	16.6	8.70
1.80V/cell	244.5	193.2	166.9	124.1	89.8	68.6	56.6	42.8	34.8	31.8	28.0	20.5	16.9	8.85
1.75V/cell	261.0	206.2	174.2	127.9	94.5	71.6	58.7	44.2	35.9	32.9	28.8	20.7	17.1	8.95
1.70V/cell	274.3	216.7	176.4	129.5	98.7	74.1	60.3	45.4	36.9	33.5	29.3	20.9	17.2	9.05
1.67V/cell	278.8	220.2	179.1	130.7	103.0	76.7	62.0	46.7	37.8	33.9	29.7	21.1	17.4	9.15
1.60V/cell	282.7	223.3	181.8	131.3	107.2	79.1	63.3	47.7	38.3	34.4	30.1	21.5	17.7	9.30



# LPL Series-Long Life Standby LPL2-100(2V100Ah)



## 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

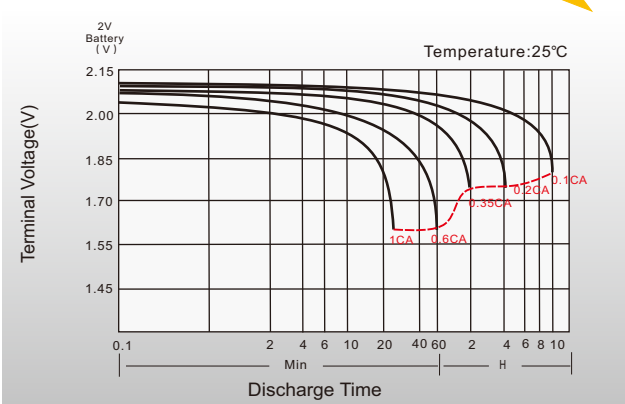
## General Features

- 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

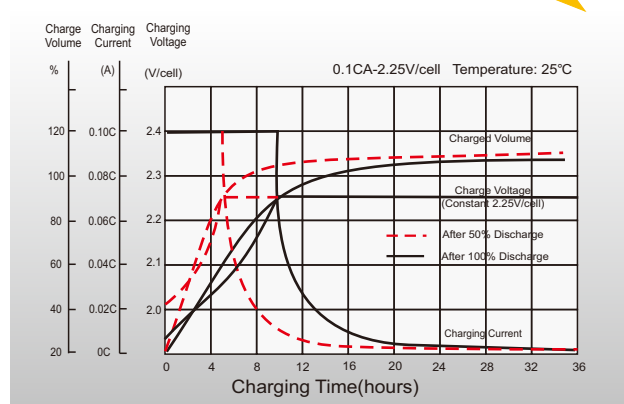
## Standards

- 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

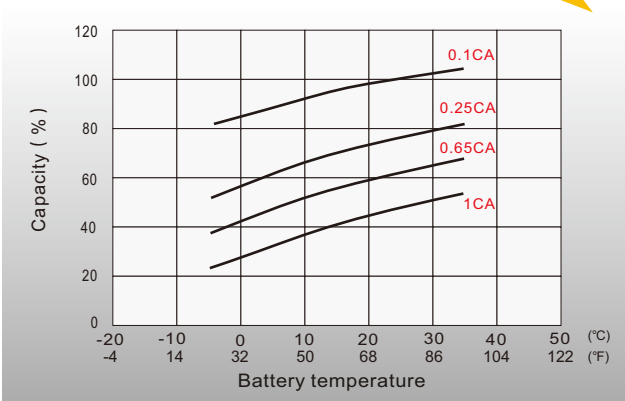
## Discharge Characteristics



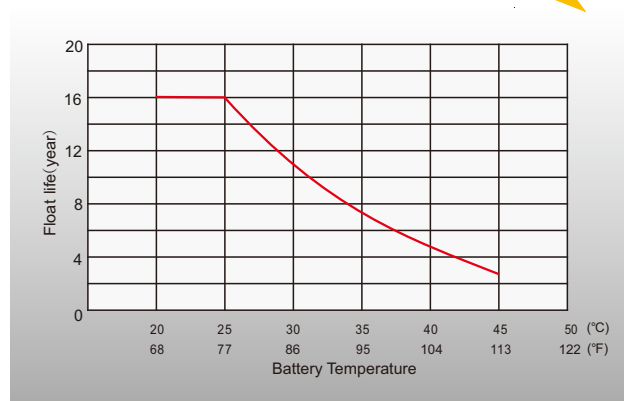
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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