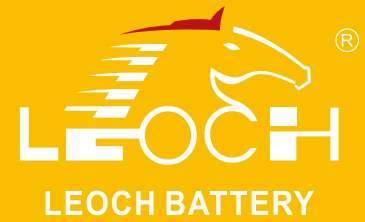


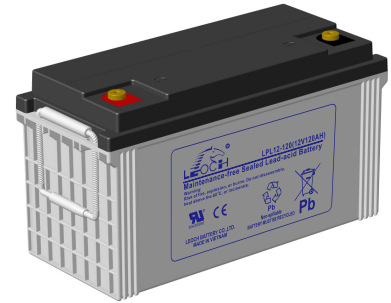


# LPL Series-Long Life Standby LPL12-120(12V120Ah)

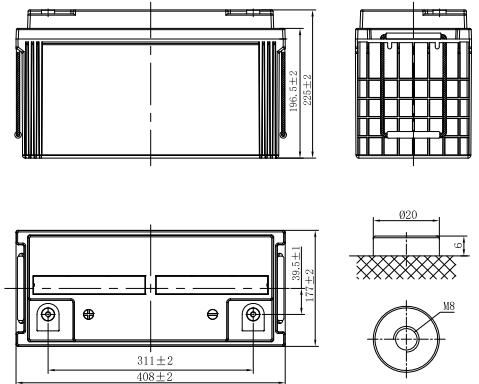


## Specifications

Rated Voltage	12V	
Nominal Capacity	C <sub>10</sub> , 1.80V/cell	120Ah
Dimension	Length	408±2mm (16.1 inches)
	Width	177±2mm (6.97 inches)
	Container Height	225±2mm (8.86 inches)
	Total Height	225±2mm (8.86 inches)
Approx Weight	36.3kg (80.0 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	126.0 Ah	C20(6.30A, 1.80V/cell)
	120.0 Ah	C10(12.0A, 1.80V/cell)
	104.5 Ah	C5(20.9A, 1.75V/cell)
	95.4 Ah	C3(31.8A, 1.75V/cell)
	71.9 Ah	C1(71.9A, 1.60V/cell)
Max. Discharge Current	1200A (5s)	
Internal Resistance(25°C)	Approx 4.5mΩ	
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 36A. Voltage 2.23V~2.27V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Equalization Use	Initial Charging Current less than 36A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -4mV/°C	
Cycle Use	Initial Charging Current less than 36A. 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)

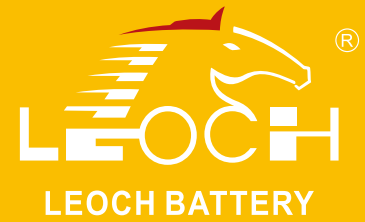
F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	237.2	168.7	146.2	97.5	72.8	63.0	46.6	39.1	28.7	22.5	19.6	17.2	13.3	11.5	6.08
1.80V/cell	269.7	191.4	165.7	106.1	77.2	65.2	48.1	40.4	31.2	24.0	20.6	18.5	13.9	12.0	6.30
1.75V/cell	293.0	207.6	179.4	108.3	79.9	68.4	50.6	42.6	31.8	24.5	20.9	18.7	14.0	12.1	6.36
1.70V/cell	313.2	221.4	190.5	110.5	81.5	69.8	51.6	43.4	32.4	24.9	21.3	18.8	14.2	12.2	6.43
1.65V/cell	324.2	228.4	196.1	112.1	82.7	70.8	52.4	44.0	32.7	25.3	21.7	18.8	14.4	12.4	6.51
1.60V/cell	335.6	236.2	202.2	113.7	83.9	71.9	53.1	44.7	33.0	25.6	22.0	19.0	14.6	12.5	6.58

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

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	443.0	317.3	276.9	186.3	140.0	121.8	90.3	76.1	56.1	44.2	38.5	34.1	26.3	22.8	12.1
1.80V/cell	495.5	354.9	309.7	201.2	147.4	125.4	92.9	78.2	60.6	47.0	40.3	36.4	27.6	23.8	12.5
1.75V/cell	528.9	378.8	330.5	203.8	151.8	131.0	97.2	82.0	61.6	47.7	40.9	36.6	27.7	24.0	12.6
1.70V/cell	556.0	398.2	347.5	206.1	153.7	133.0	98.7	83.3	62.6	48.4	41.5	36.7	28.1	24.3	12.8
1.65V/cell	565.0	404.7	353.1	207.6	155.1	134.2	99.7	84.2	62.9	48.9	42.2	36.8	28.4	24.5	12.9
1.60V/cell	572.9	410.4	358.1	208.5	155.9	135.2	100.5	84.9	63.2	49.3	42.6	36.9	28.7	24.8	13.0



# LPL Series-Long Life Standby LPL12-120(12V120Ah)



## Applications

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply

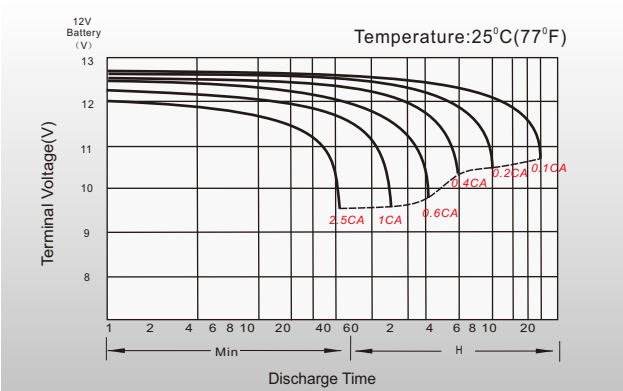
## General Features

- 12 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

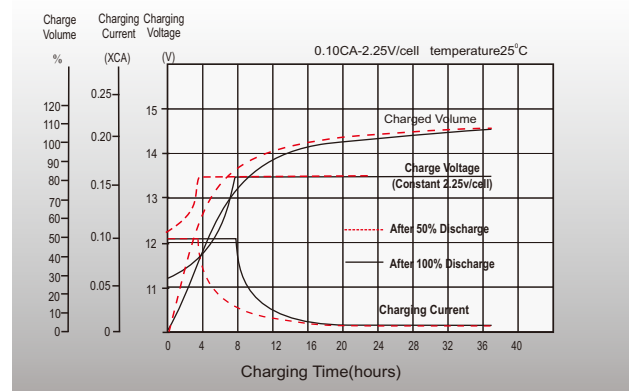
## Standards

- 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

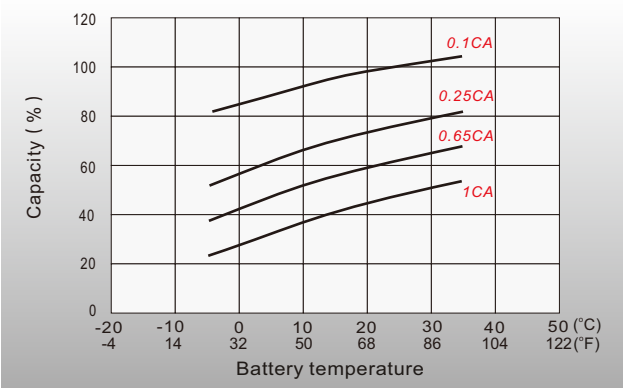
### Discharge Characteristics



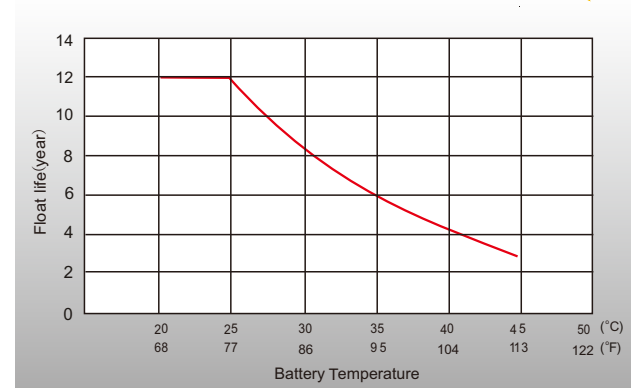
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



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