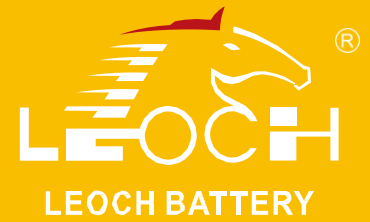




# LPL Series-Long Standby Life LPL12-70(12V70Ah)

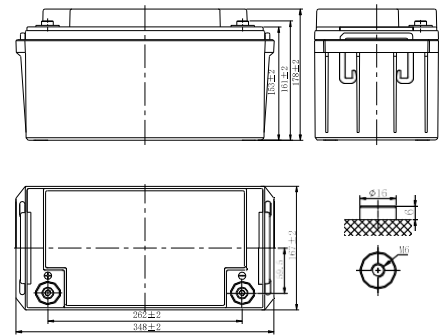


## Specifications

Rated Voltage	12V	
Nominal Capacity	70.0Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	348±2mm (13.7 inches)
	Width	167±2mm (6.57 inches)
	Container Height	178±2mm (7.01 inches)
	Total Height	178±2mm (7.01 inches)
Approx Weight	23.7 Kg (52.25 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	75.0Ah	(20hr, 3.75A, 1.80V/cell)
	70.0Ah	(10hr, 7.00A, 1.80V/cell)
	64.0Ah	(5hr, 12.8A, 1.75V/cell)
	57.6Ah	(3hr, 19.2A, 1.75V/cell)
	49.6Ah	(1hr, 49.6A, 1.60V/cell)
Max. Discharge Current	700A (5s)	
Internal Resistance (25°C)	Approx 6.6mΩ	
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)	
Cycle Use	Initial Charging Current less than 21.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 21.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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)

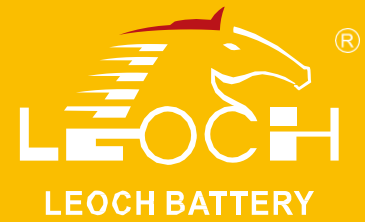
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	123.6	99.7	81.8	66.9	47.3	38.3	26.4	17.5	13.7	11.7	10.1	7.89	6.78	3.62
1.80V/cell	157.9	120.5	96.7	78.9	55.0	42.9	28.8	18.9	14.6	12.5	10.9	8.30	7.00	3.75
1.75V/cell	173.5	131.6	104.0	81.9	57.1	44.9	29.9	19.2	15.0	12.8	11.2	8.58	7.19	3.84
1.70V/cell	189.1	140.5	109.3	85.3	59.4	46.3	31.1	19.8	15.4	13.2	11.4	8.94	7.46	3.94
1.65V/cell	204.1	149.4	116.2	90.0	60.9	47.9	32.0	20.6	15.9	13.5	11.7	9.25	7.67	4.06
1.60V/cell	221.6	159.8	123.7	95.0	63.5	49.6	33.0	21.2	16.4	14.0	11.9	9.41	7.83	4.13

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	230.8	188.0	155.9	128.8	91.9	74.6	51.9	34.5	27.1	23.1	20.1	15.7	13.6	7.24
1.80V/cell	291.5	224.2	181.6	149.7	106.1	83.2	56.2	37.0	28.8	24.7	21.5	16.5	14.0	7.49
1.75V/cell	315.2	241.9	193.5	154.2	109.0	86.6	58.1	37.5	29.4	25.2	22.0	17.0	14.3	7.66
1.70V/cell	335.8	254.7	201.8	159.6	113.0	89.1	60.3	38.5	30.0	25.8	22.5	17.7	14.9	7.86
1.65V/cell	359.1	268.8	212.8	167.0	114.8	91.4	61.6	39.9	30.9	26.5	22.9	18.3	15.3	8.09
1.60V/cell	381.1	282.7	224.3	175.0	119.0	94.2	63.4	41.0	31.8	27.2	23.3	18.6	15.5	8.21



# LPL Series-Long Standby Life LPL12-70(12V70Ah)



## 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

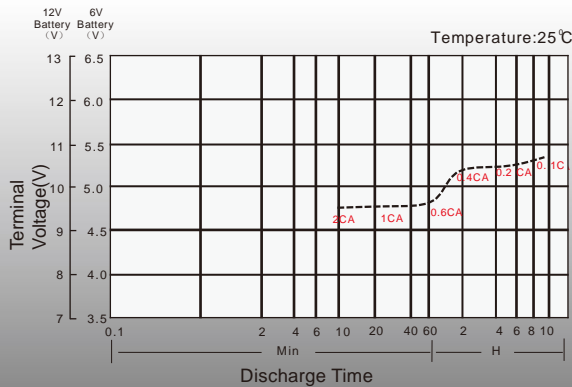
## General Features

- 10 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

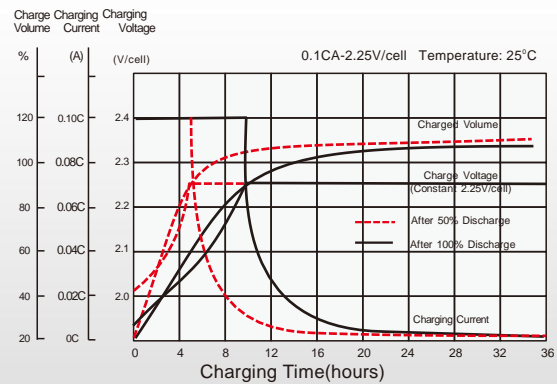
## Standards

- 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

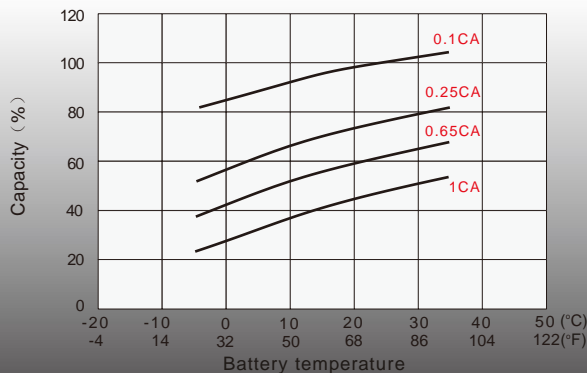
## Discharge Characteristics



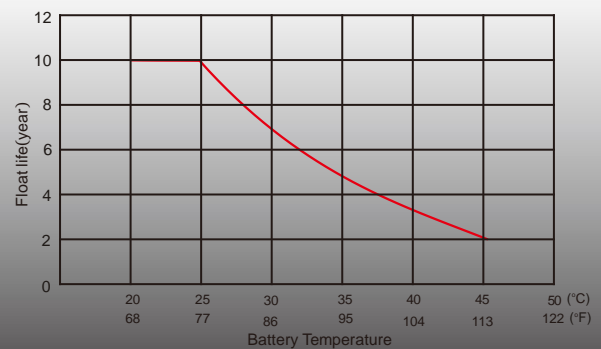
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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