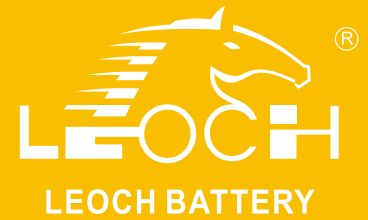


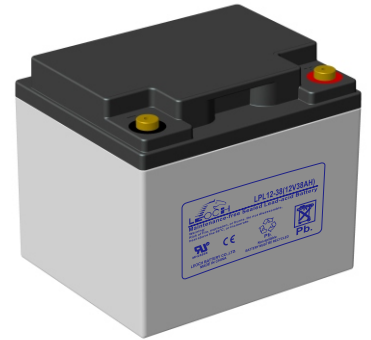


LPL Series-Long Life Standby LPL12-38(12V38Ah)

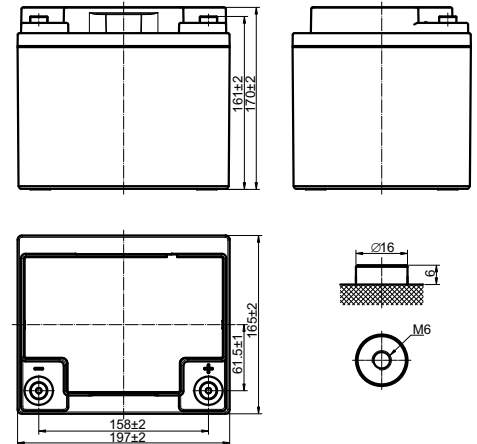


Specifications

Rated Voltage	12V	
Nominal Capacity	38.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	197±2mm (7.76 inches)
	Width	165±2mm (6.50 inches)
	Container Height	170±2mm (6.69 inches)
	Total Height	170±2mm (6.69 inches)
Approx Weight	12.7 Kg (28.0 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	40.0 Ah	(20hr, 2.00A, 1.80V/cell)
	38.0 Ah	(10hr, 3.80A, 1.80V/cell)
	34.6Ah	(5hr, 6.92A, 1.75V/cell)
	31.5 Ah	(3hr, 10.5A, 1.75V/cell)
	24.2 Ah	(1hr, 24.2A, 1.60V/cell)
Max. Discharge Current	456A (5s)	
Internal Resistance (25°C)	Approx 10.0mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C (5 ~ 122°F)
	Charge	0 ~ 40°C (32 ~ 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 11.4A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 11.4A. 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

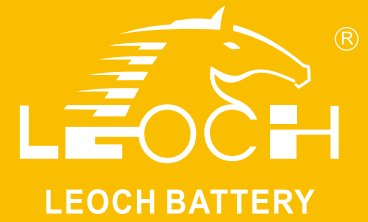


Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	20min	30min	45min	1H	1.5H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	56.2	38.3	34.3	25.1	21.2	15.4	12.9	9.49	7.44	6.46	5.69	4.38	3.63	1.93
1.80V/cell	63.8	43.3	37.3	26.6	22.0	15.9	13.4	10.3	7.95	6.79	6.12	4.61	3.80	2.00
1.75V/cell	69.2	46.8	38.1	27.5	23.1	16.7	14.1	10.5	8.09	6.92	6.17	4.63	3.84	2.01
1.70V/cell	73.8	49.6	38.8	28.1	23.5	17.1	14.3	10.7	8.24	7.03	6.20	4.70	3.88	2.03
1.65V/cell	76.1	51.0	39.4	28.5	23.9	17.3	14.6	10.8	8.36	7.17	6.23	4.77	3.93	2.06
1.60V/cell	78.7	52.3	40.0	28.9	24.2	17.6	14.8	10.9	8.46	7.27	6.27	4.83	3.97	2.08

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

F.V/Time	10min	20min	30min	45min	1H	1.5H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	107.9	74.4	63.5	49.2	39.8	28.9	24.4	18.0	14.2	12.3	10.9	8.43	7.00	3.72
1.80V/cell	120.7	83.2	68.6	51.7	41.0	29.8	25.1	19.4	15.1	12.9	11.7	8.84	7.32	3.85
1.75V/cell	128.8	88.8	69.5	53.3	42.9	31.2	26.3	19.8	15.3	13.1	11.7	8.87	7.38	3.88
1.70V/cell	135.4	93.3	70.3	54.0	43.5	31.6	26.7	20.1	15.5	13.3	11.8	9.00	7.45	3.92
1.65V/cell	137.6	94.9	70.8	54.5	43.9	32.0	27.0	20.2	15.7	13.5	11.8	9.10	7.54	3.96
1.60V/cell	139.5	96.2	71.1	54.7	44.2	32.2	27.2	20.2	15.8	13.6	11.8	9.20	7.61	4.00



LPL Series-Long Life Standby LPL12-38(12V38Ah)

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

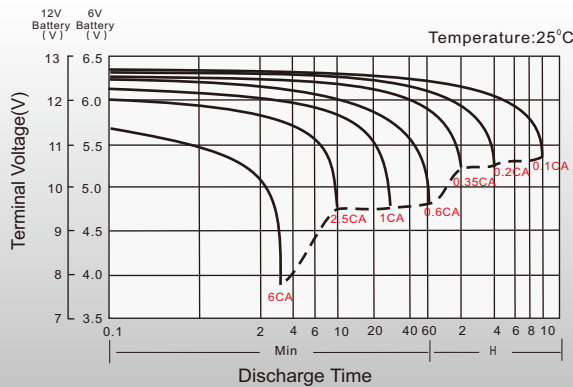
General Features

- 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

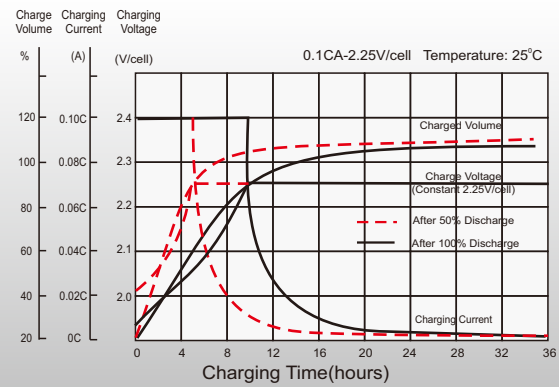
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

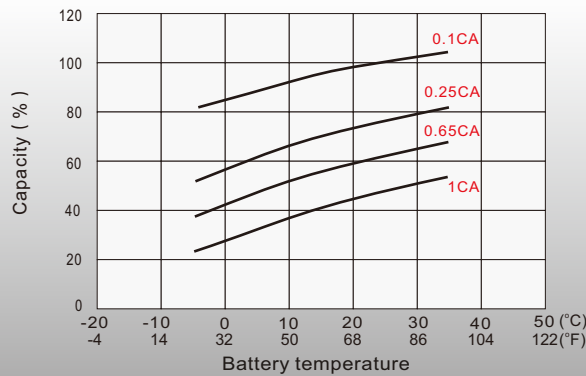
Discharge Characteristics



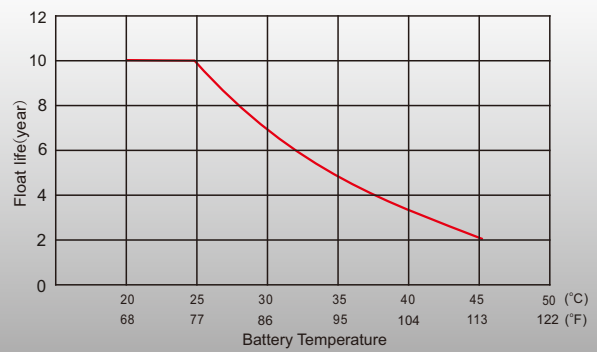
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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