



LPL Series-Long Standby Life LPL12-60(12V60Ah)

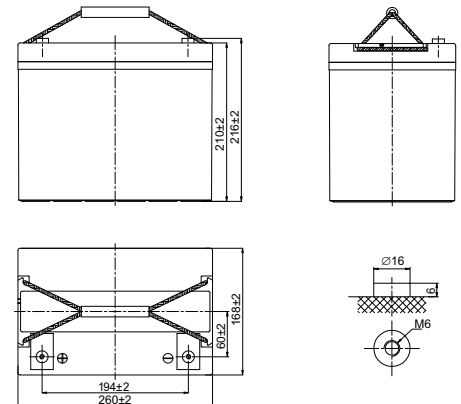


Specifications

Rated Voltage	12V	
Nominal Capacity	60.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	260±2mm (10.24 inches)
	Width	168±2mm (6.61 inches)
	Container Height	210±2mm (8.27 inches)
	Total Height	216±2mm (8.50 inches)
Approx Weight	20.7 Kg (45.64 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	63.6 Ah	(20hr, 3.18A, 1.80V/cell)
	60.0 Ah	(10hr, 6.00A, 1.80V/cell)
	55.0 Ah	(5hr, 11.0A, 1.75V/cell)
	50.1 Ah	(3hr, 16.7A, 1.75V/cell)
	38.6 Ah	(1hr, 38.6A, 1.60V/cell)
Max. Discharge Current	600A (5s)	
Internal Resistance (25°C)	Approx 7.4mΩ	
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)	
Cycle Use	Initial Charging Current less than 18.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 18.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Standby Use	Initial Charging Current less than 18.0A. 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	89.7	77.7	61.1	54.6	40.0	33.9	20.6	15.1	11.9	10.3	9.08	6.98	5.79	3.07
1.80V/cell	101.8	88.1	69.1	59.5	42.3	35.1	21.3	16.4	12.7	10.8	9.76	7.35	6.00	3.18
1.75V/cell	110.4	95.4	74.6	60.7	43.9	36.8	22.4	16.7	12.9	11.0	9.83	7.39	6.12	3.21
1.70V/cell	117.7	101.3	79.1	61.9	44.8	37.5	22.9	17.1	13.1	11.2	9.88	7.50	6.18	3.25
1.65V/cell	121.4	104.2	81.3	62.8	45.4	38.1	23.2	17.2	13.3	11.4	9.93	7.61	6.26	3.29
1.60V/cell	125.5	107.5	83.4	63.8	46.1	38.6	23.5	17.4	13.5	11.6	10.0	7.70	6.33	3.32

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	168.7	147.2	116.3	104.4	76.8	65.5	40.1	29.6	23.3	20.3	17.9	13.9	11.5	6.11
1.80V/cell	188.7	164.6	130.1	112.8	80.9	67.5	41.2	31.9	24.8	21.3	19.2	14.5	12.0	6.32
1.75V/cell	201.4	175.7	138.8	114.2	83.3	70.5	43.2	32.5	25.1	21.6	19.3	14.6	12.1	6.38
1.70V/cell	211.7	184.7	145.9	115.5	84.4	71.5	43.9	33.0	25.5	21.8	19.4	14.8	12.3	6.44
1.65V/cell	215.1	187.7	148.3	116.4	85.1	72.1	44.4	33.2	25.8	22.2	19.4	15.0	12.4	6.51
1.60V/cell	218.1	190.3	150.4	116.9	85.6	72.7	44.7	33.3	26.0	22.4	19.5	15.1	12.5	6.58



LPL Series-Long Standby Life

LPL12-60(12V60Ah)



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

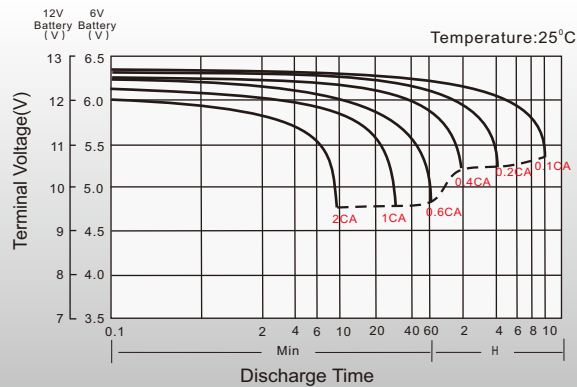
General Features

- 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

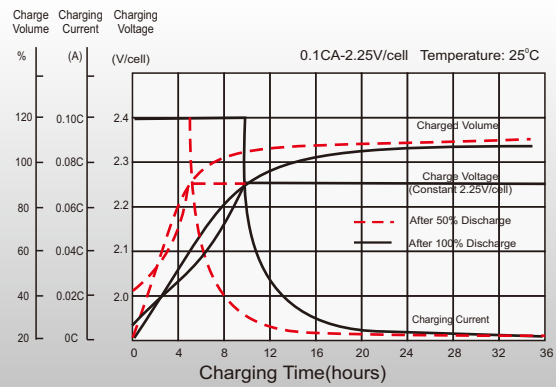
Standards

- 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

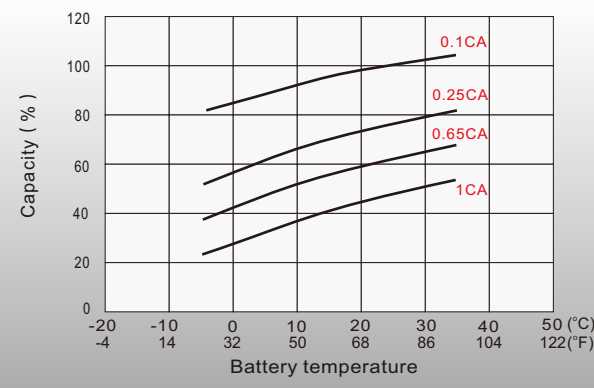
Discharge Characteristics



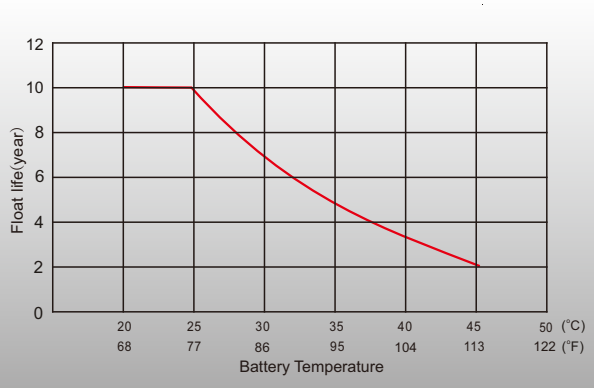
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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