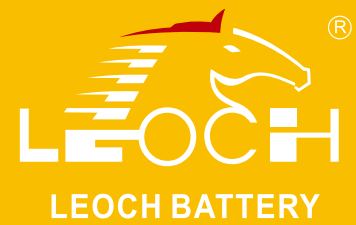




IEEE/UL Battery
Sizing by
MooreU
610-952-6067
www.mooreu.com



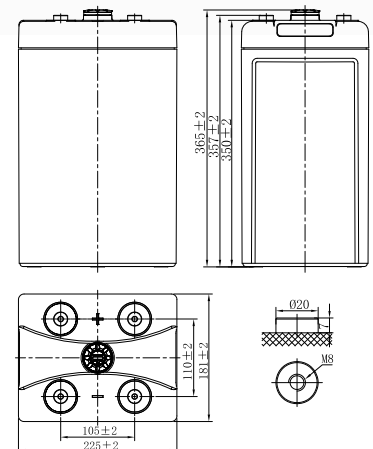
LPL Series-Long Life Standby LPL2-600M(2V600Ah)



Specifications

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	600Ah
Dimension	Length	225±2mm (8.56 inches)
	Width	181±2mm (7.13 inches)
	Container Height	350±2mm (13.8 inches)
	Total Height	365±2mm (14.4 inches)
Approx Weight	33.1 Kg (73.0 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	636.0 Ah	(20hr, 31.8A, 1.80V/cell)
	600.0 Ah	(10hr, 60.0A, 1.80V/cell)
	525.0 Ah	(5hr, 105.0A, 1.75V/cell)
	468.0 Ah	(3hr, 156.0A, 1.75V/cell)
	375.4 Ah	(1hr, 375.4A, 1.60V/cell)
Max. Discharge Current	4800A (5s)	
Internal Resistance(25°C)	Approx 0.4mΩ	
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)	
Standby Use	Initial Charging Current less than 180A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 180A. Voltage 2.35V~2.40V 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)

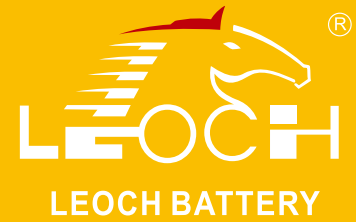
F.V/Time	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	383.9	262.6	241.3	183.0	140.4	113.0	95.3	82.7	67.2	56.2	30.1
1.80V/cell	421.9	313.2	249.2	193.9	151.9	121.8	102.7	88.8	72.0	60.0	31.8
1.75V/cell	490.1	337.6	260.1	202.8	156.0	124.8	105.0	90.6	73.3	60.9	32.2
1.70V/cell	529.1	354.9	272.0	209.7	160.6	127.9	107.4	92.6	74.6	61.9	32.6
1.67V/cell	544.0	361.1	273.0	210.0	163.0	129.7	108.7	93.7	75.4	62.4	32.9
1.60V/cell	566.9	375.4	274.8	219.4	169.0	134.0	112.1	96.3	77.2	63.8	33.4

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

F.V/Time	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	730.8	587.4	467.7	356.6	275.3	222.0	187.6	163.1	132.9	111.3	59.9
1.80V/cell	785.4	617.2	477.5	374.2	296.7	238.4	201.5	174.5	142.0	118.6	63.2
1.75V/cell	900.4	649.0	496.0	389.8	303.3	243.5	205.4	177.7	144.3	120.2	63.9
1.70V/cell	957.9	658.7	513.5	396.5	310.7	248.7	209.5	181.1	146.5	121.9	64.7
1.67V/cell	974.8	665.3	516.3	399.6	314.5	251.6	211.7	182.9	147.9	122.8	65.1
1.60V/cell	1048.2	701.1	520.1	417.6	324.2	258.6	217.2	187.3	150.9	125.1	66.2



LPL Series-Long Life Standby LPL2-600M(2V600Ah)



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

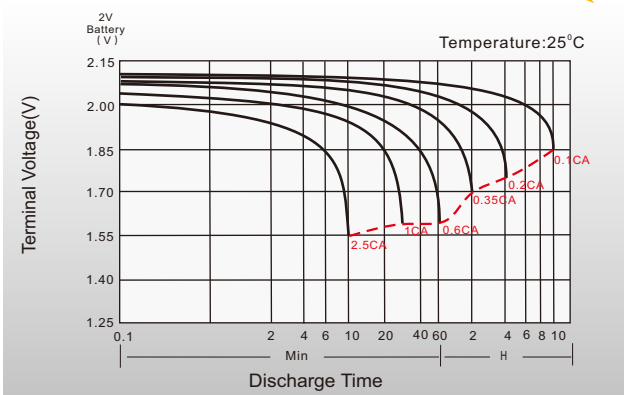
General Features

- 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

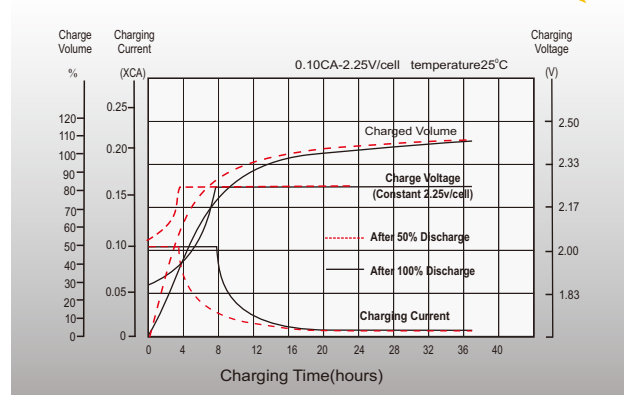
Standards

- 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

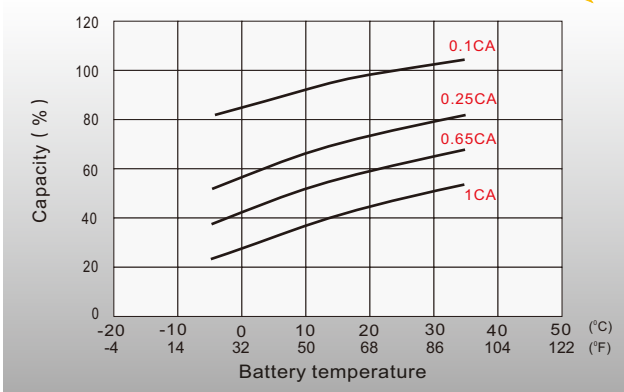
Discharge Characteristics



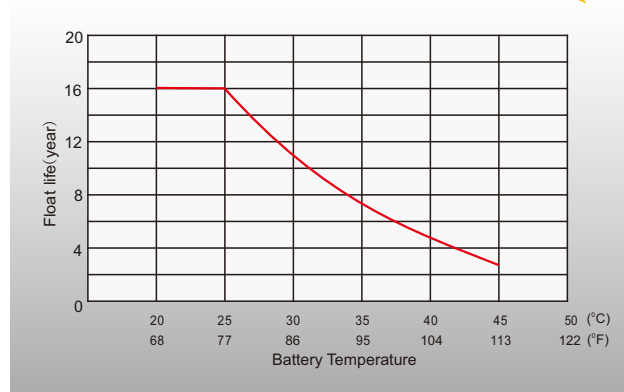
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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