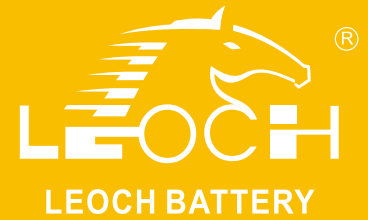


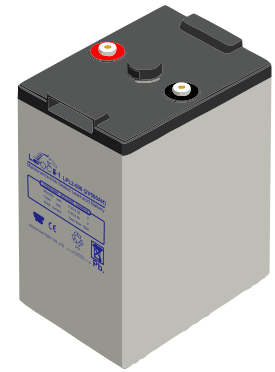


LPL Series-Long Life Standby LPL2-500(2V500Ah)

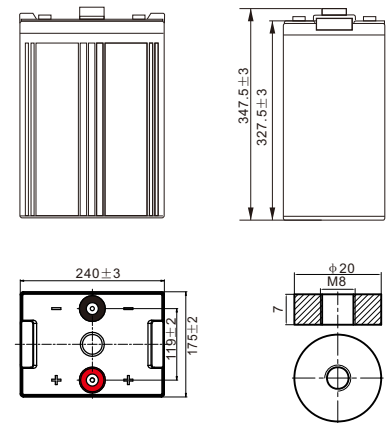


Specifications

Rated Voltage	2V	
Nominal Capacity	500.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	240±3mm (9.45 inches)
	Width	175±2mm (6.89 inches)
	Container Height	327.5±3mm (12.9 inches)
	Total Height	347.5±3mm (13.7 inches)
Approx Weight	30.5 Kg (67.3 lbs)	
Terminal	M8	
Container Material	ABS or PP	
Rated Capacity (25°C)	534.0 Ah	(20hr, 26.7A, 1.80V/cell)
	500.0 Ah	(10hr, 50.0A, 1.80V/cell)
	443.5 Ah	(5hr, 88.7A, 1.75V/cell)
	386.1 Ah	(3hr, 128.7A, 1.75V/cell)
	300.3 Ah	(1hr, 300.3A, 1.60V/cell)
Max. Discharge Current	4000A (5s)	
Internal Resistance (25°C)	Approx 0.6mΩ	
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 150.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 150.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°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	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	375.2	300.8	250.8	155.5	118.7	97.0	82.6	72.2	57.8	48.2	25.8
1.80V/cell	402.6	316.5	262.3	162.5	124.5	101.4	86.1	75.4	60.3	50.0	26.7
1.75V/cell	426.3	332.8	273.6	169.0	128.7	104.8	88.7	77.2	61.4	50.7	26.8
1.70V/cell	447.3	345.3	283.2	175.8	132.7	107.1	90.3	78.5	62.5	51.3	27.1
1.65V/cell	469.2	360.3	293.4	181.5	135.7	109.4	92.2	79.9	63.4	51.9	27.4
1.60V/cell	/	370.0	300.3	185.0	138.0	110.9	93.5	81.0	64.4	52.6	27.6

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

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	717.0	578.3	485.1	302.5	231.9	190.3	162.8	142.6	114.6	95.8	51.3
1.80V/cell	763.1	604.5	504.5	314.6	242.2	198.1	168.8	148.4	119.2	99.3	53.0
1.75V/cell	802.0	631.8	524.0	325.8	249.6	204.2	173.5	151.4	121.3	100.5	53.2
1.70V/cell	834.4	651.1	539.5	337.4	256.4	207.8	175.9	153.9	123.3	101.6	53.8
1.65V/cell	868.8	675.6	555.8	347.0	261.0	211.5	179.1	156.0	124.8	102.6	54.3
1.60V/cell	/	687.3	564.9	351.5	264.2	213.5	180.9	157.7	126.4	103.9	54.6



LPL Series-Long Life Standby LPL2-500(2V500Ah)



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

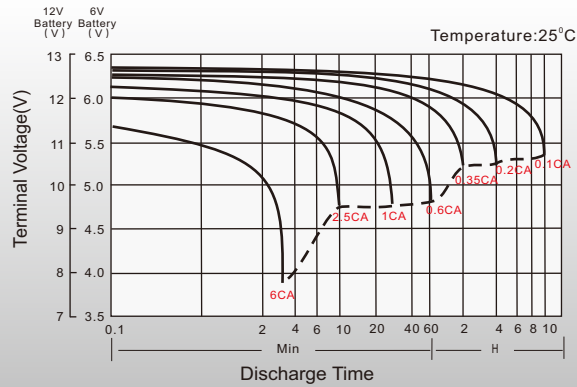
General Features

- 20 years design life
- 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
- Can be operated in upright, side, or end mounting orientation

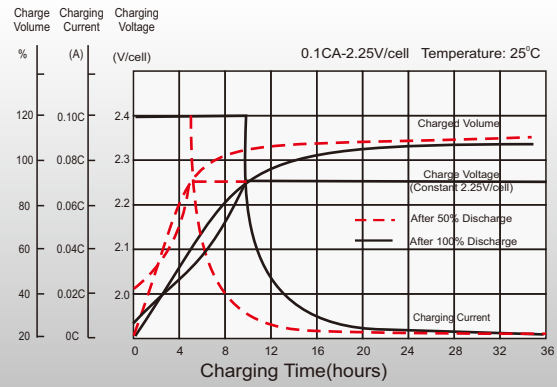
Standards

- 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

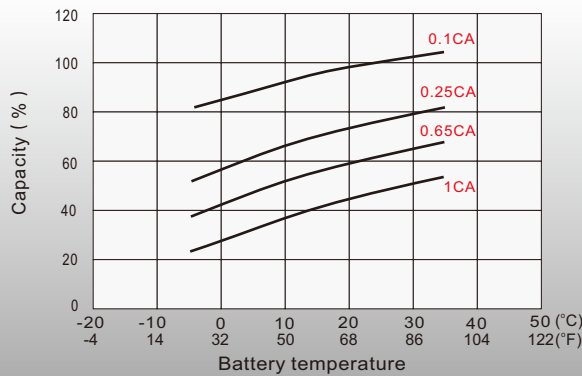
Discharge Characteristics



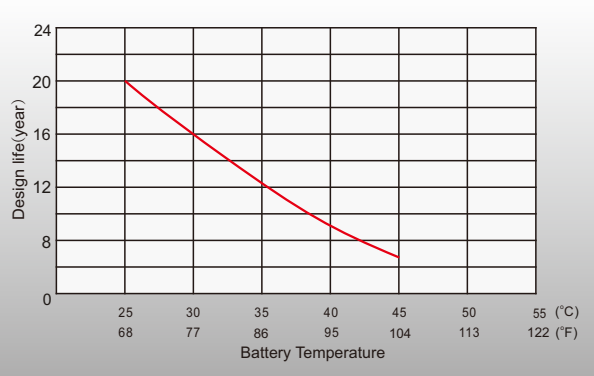
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Design Life



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