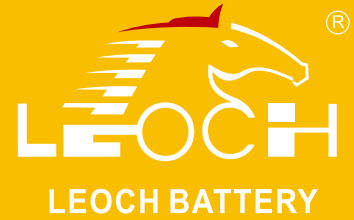




IEEE/UL Battery
Sizing by
MooreU
610-952-6067
www.mooreu.com

LPL Series-Long Life Standby LPL2-1000(2V1000Ah)

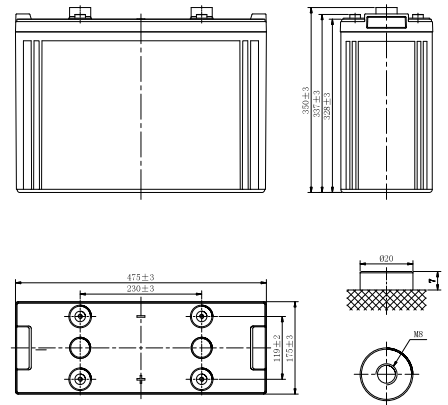


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	1000Ah
Dimension	Length	475±3mm (18.7 inches)
	Width	175±3mm (6.89 inches)
	Container Height	328±3mm (12.9 inches)
	Total Height	350±3mm (13.8 inches)
Approx Weight	60.0kg (132.3 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	1060.0 Ah	C20(53.0A, 1.80V/cell)
	1000.0 Ah	C10(100.0A, 1.80V/cell)
	875.0 Ah	C5(175.0A, 1.75V/cell)
	780.0 Ah	C3(260.0A, 1.75V/cell)
Max. Discharge Current	8000A (5s)	
	Internal Resistance(25°C)	
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 300A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
	Cycle Use	
Effect of temp. to Capacity	Initial Charging Current less than 300A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
Self Discharge	0°C (32°F)	86%
	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)

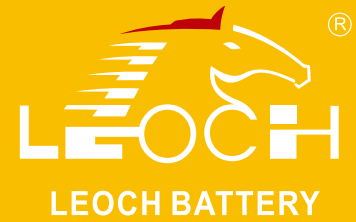
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	696.0	550.3	481.6	379.8	307.7	234.1	188.3	158.9	137.9	112.1	93.7	50.2
1.80V/cell	786.9	615.3	533.0	415.5	334.7	253.2	202.9	171.1	147.9	120.0	100.0	53.0
1.75V/cell	822.4	640.3	552.7	429.5	345.0	260.0	208.0	175.0	151.0	122.2	101.6	53.7
1.70V/cell	878.2	664.6	573.0	444.0	356.0	267.6	213.2	179.0	154.3	124.4	103.1	54.4
1.67V/cell	938.9	679.6	585.0	452.0	362.0	271.6	216.2	181.2	156.1	125.6	104.0	54.8
1.60V/cell	949.7	714.7	613.5	472.2	377.0	281.6	223.4	186.8	160.5	128.6	106.3	55.7

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

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1345.2	1067.0	936.2	740.5	601.3	458.9	370.0	312.7	271.9	221.5	185.4	99.9
1.80V/cell	1508.1	1184.4	1029.1	805.6	650.9	494.5	397.4	335.8	290.9	236.6	197.6	105.3
1.75V/cell	1562.9	1223.1	1059.6	827.6	667.2	505.5	405.8	342.4	296.2	240.5	200.3	106.6
1.70V/cell	1653.7	1259.5	1090.9	850.4	684.9	517.9	414.6	349.2	301.8	244.2	203.1	107.8
1.67V/cell	1751.0	1281.4	1108.4	862.5	693.9	524.2	419.3	352.8	304.8	246.4	204.7	108.6
1.60V/cell	1755.9	1333.3	1151.4	893.6	717.5	540.4	431.1	362.0	312.1	251.5	208.5	110.4



IEEE/UL Battery
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LPL Series-Long Life Standby LPL2-1000(2V1000Ah)

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

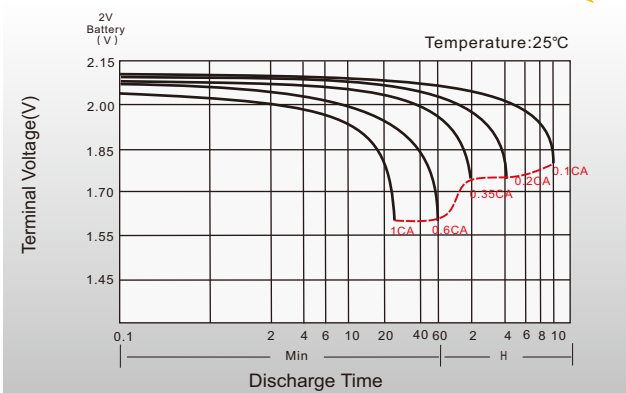
General Features

- 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

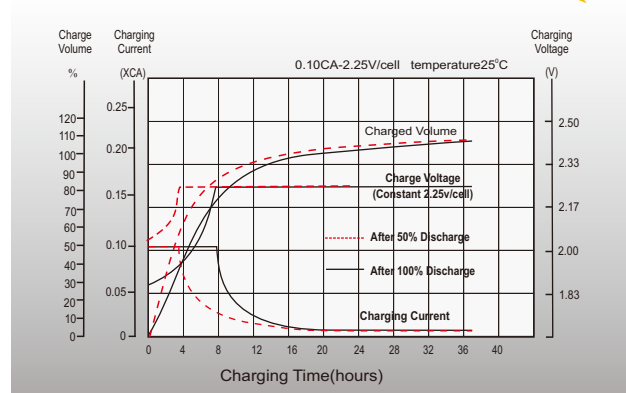
Standards

- 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

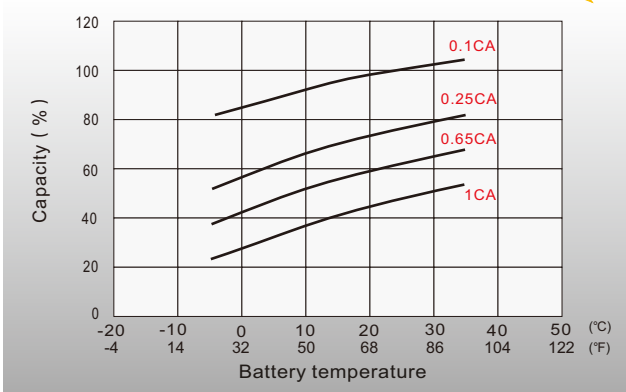
Discharge Characteristics



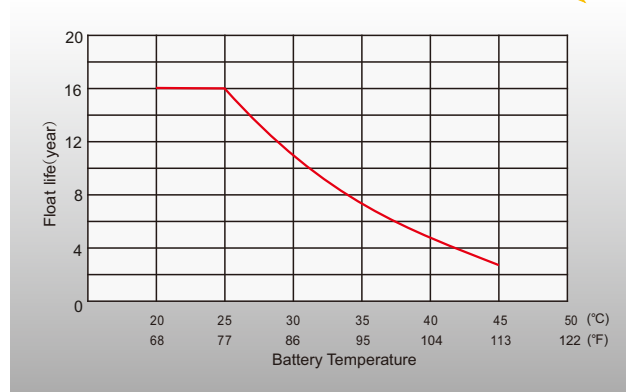
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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