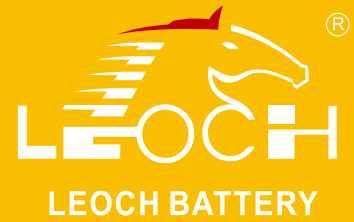




IEEE/UL Battery
Sizing by
MooreU
610-952-6067
www.mooreu.com

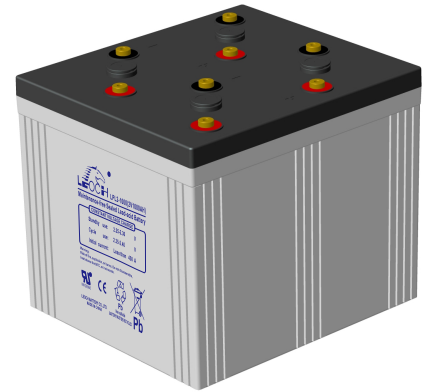


LPL Series-Long Life Standby LPL2-1500(2V1500Ah)

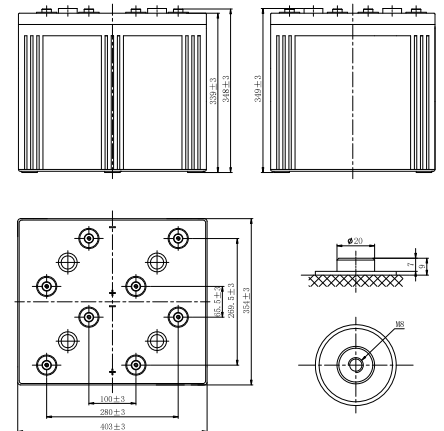


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	1500Ah
Dimension	Length	403±3mm (15.9 inches)
	Width	354±3mm (13.9 inches)
	Container Height	339±3mm (13.4 inches)
	Total Height	349±3mm (13.7 inches)
Approx Weight	97.8kg (215.6 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	1590.0 Ah	C20(79.5A, 1.80V/cell)
	1500.0 Ah	C10(150.0A, 1.80V/cell)
	1312.5 Ah	C5(262.5A, 1.75V/cell)
	1170.0 Ah	C3(390.0A, 1.75V/cell)
	925.8 Ah	C1(925.8, 1.60V/cell)
Max. Discharge Current	12000A (5s)	
Internal Resistance(25°C)	Approx 0.3mΩ	
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 450A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
	Initial Charging Current less than 450A. 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%
	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.	
Self Discharge		



Layout



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

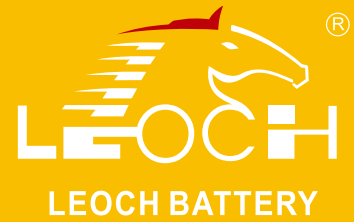
F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1049.4	829.7	741.0	569.7	461.5	351.1	282.4	238.3	206.9	168.1	140.6	75.3
1.80V/cell	1186.4	908.1	815.6	623.3	502.1	376.4	304.4	256.7	221.9	180.0	150.0	79.5
1.75V/cell	1210.6	926.2	829.4	644.3	517.5	390.0	312.0	262.5	226.5	183.3	152.3	80.5
1.70V/cell	1288.8	979.7	862.1	666.0	534.0	401.4	319.9	268.5	231.4	186.5	154.7	81.5
1.67V/cell	1333.2	1032.4	893.0	678.0	542.9	407.4	324.3	271.8	234.2	188.5	156.1	82.1
1.60V/cell	1417.1	1077.5	925.8	708.3	565.6	422.4	335.1	280.1	240.7	192.9	159.4	83.6

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	2028.2	1608.8	1440.3	1110.7	901.9	688.4	555.0	469.1	407.9	332.2	278.2	149.8
1.80V/cell	2273.8	1748.0	1574.5	1208.3	976.4	734.9	596.1	503.8	436.4	354.9	296.4	157.9
1.75V/cell	2300.5	1769.1	1589.9	1241.4	1000.8	758.3	608.7	513.6	444.3	360.7	300.5	159.8
1.70V/cell	2426.8	1856.6	1641.3	1275.7	1027.4	776.8	621.8	523.8	452.7	366.3	304.7	161.7
1.67V/cell	2486.5	1946.7	1692.0	1293.8	1040.9	786.4	628.9	529.2	457.3	369.6	307.1	162.8
1.60V/cell	2620.2	2010.2	1737.6	1340.4	1076.3	810.5	646.6	543.0	468.2	377.2	312.8	165.6



LPL Series-Long Life Standby LPL2-1500(2V1500Ah)



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

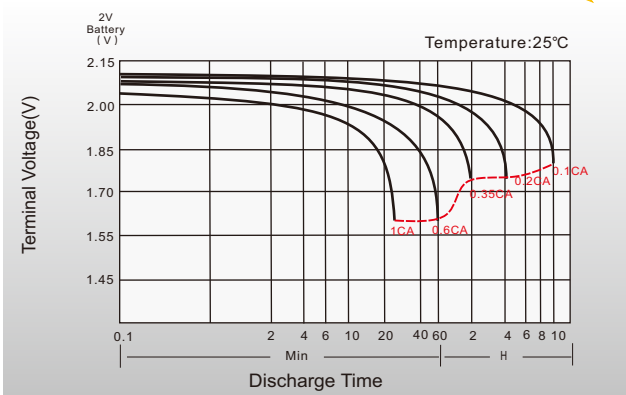
General Features

- 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

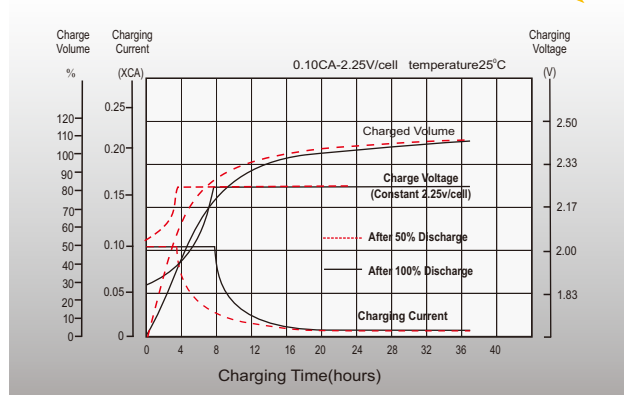
Standards

- 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

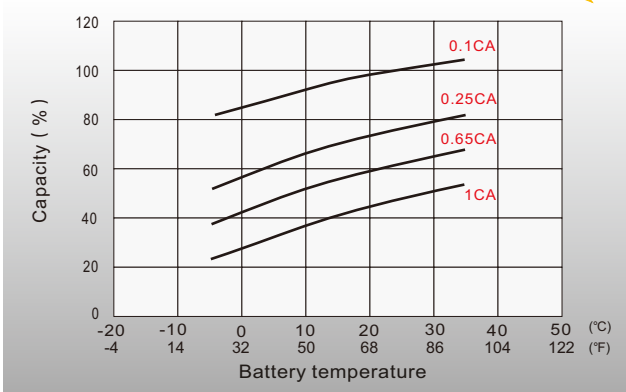
Discharge Characteristics



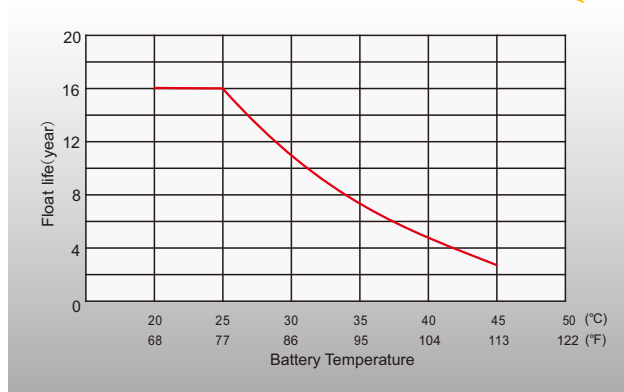
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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