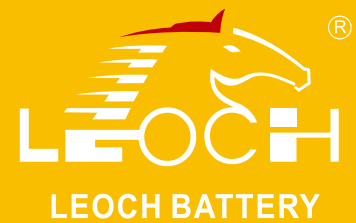




IEEE/UL Battery
Sizing by
MooreU
610-952-6067
www.mooreu.com



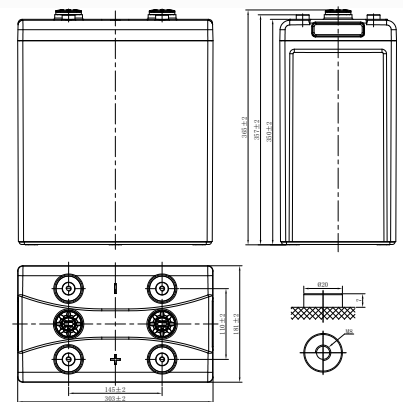
LPL Series-Long Life Standby LPL2-800M(2V800Ah)



Specifications

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	800Ah
Dimension	Length	303±2mm (11.9 inches)
	Width	181±2mm (7.13 inches)
	Container Height	350±2mm (13.8 inches)
	Total Height	365±2mm (14.4 inches)
Approx Weight	44.5 Kg (98.1 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	848.0 Ah	(20hr,42.4A, 1.80V/cell)
	800.0 Ah	(10hr,80.0A, 1.80V/cell)
	700.0 Ah	(5hr,140.0A, 1.75V/cell)
	624.0 Ah	(3hr,208.0A, 1.75V/cell)
	500.6 Ah	(1hr,500.6A, 1.60V/cell)
Max. Discharge Current	6400A (5s)	
Internal Resistance(25°C)	Approx 0.38mΩ	
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 240A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 240A. 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)

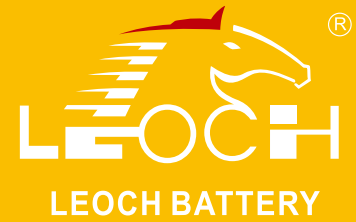
F.V/Time	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	521.0	349.7	321.4	244.3	187.2	150.6	127.1	110.3	89.7	75.0	40.2
1.80V/cell	573.7	417.7	331.3	259.1	202.6	162.3	136.9	118.3	96.0	80.0	42.4
1.75V/cell	665.4	448.1	347.2	271.0	208.0	166.4	140.0	120.8	97.7	81.2	42.9
1.70V/cell	718.1	473.4	361.0	278.0	214.1	170.6	143.2	123.4	99.5	82.5	43.5
1.67V/cell	738.9	480.8	363.0	279.0	217.3	173.0	145.0	124.9	100.5	83.2	43.8
1.60V/cell	755.9	500.6	366.5	292.6	225.3	178.7	149.4	128.4	102.9	85.0	44.6

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	992.2	801.0	635.1	476.1	367.1	296.0	250.2	217.5	177.2	148.4	79.9
1.80V/cell	1066.4	842.0	648.8	500.5	395.6	317.9	268.7	232.7	189.3	158.1	84.2
1.75V/cell	1222.5	885.0	674.2	520.0	404.4	324.6	273.9	236.9	192.4	160.3	85.2
1.70V/cell	1300.5	898.9	687.5	528.8	414.3	331.6	279.9	241.4	195.4	162.5	86.2
1.67V/cell	1322.6	909.2	691.3	538.8	419.4	335.4	282.2	243.9	197.1	163.8	86.8
1.60V/cell	1397.7	939.4	693.5	557.8	432.3	344.8	289.6	249.7	201.2	166.8	88.3



LPL Series-Long Life Standby LPL2-800M(2V800Ah)



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

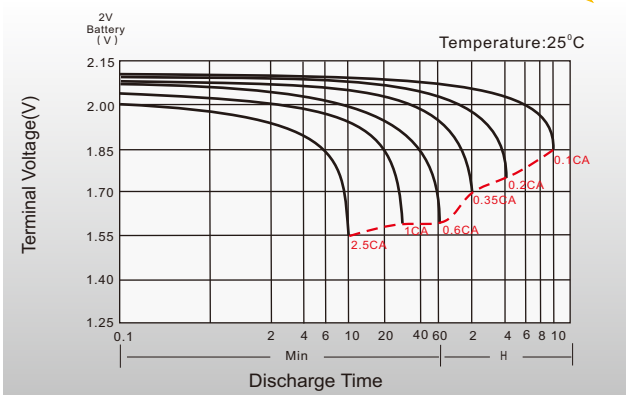
General Features

- 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

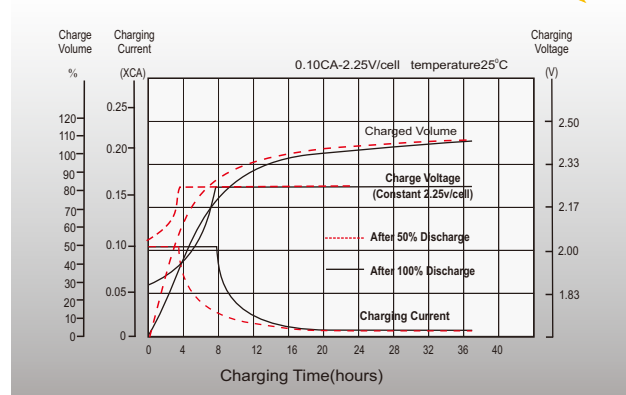
Standards

- 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

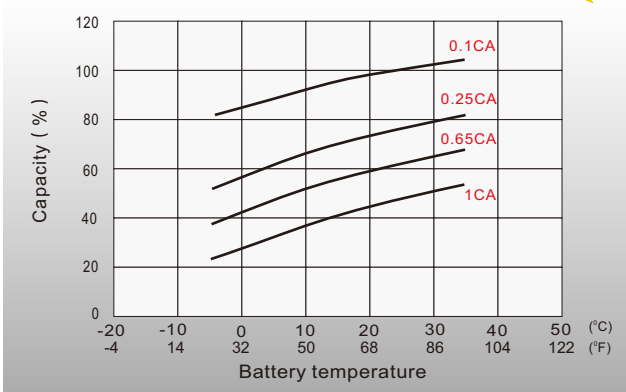
Discharge Characteristics



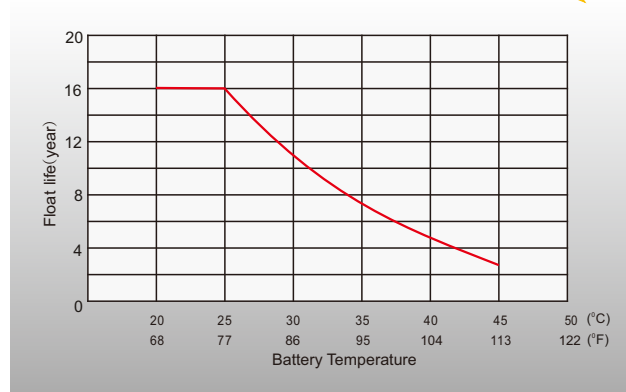
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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