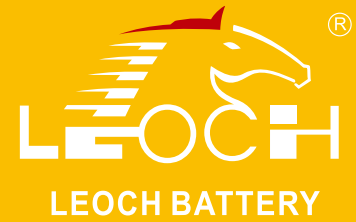




IEEE/UL Battery
Sizing by
MooreU
610-952-6067
www.mooreu.com

LPL Series-Long Life Standby LPL2-200M(2V200Ah)

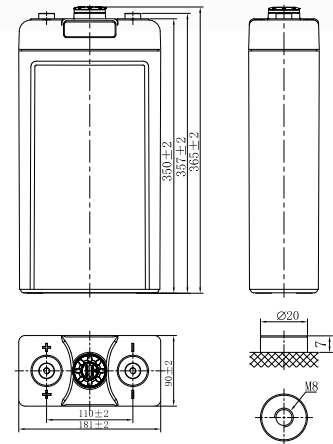


Specifications

Rated Voltage	2V	
Nominal Capacity	C ₁₀ , 1.80V/cell	200Ah
Dimension	Length	90±2mm (3.54 inches)
	Width	181±2mm (7.13 inches)
	Container Height	350±2mm (13.8 inches)
	Total Height	365±2mm (14.4 inches)
Approx Weight	12.4 Kg (2.73 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	212.0 Ah	(20hr, 10.6A, 1.80V/cell)
	200.0 Ah	(10hr, 20.0A, 1.80V/cell)
	175.0 Ah	(5hr, 35.0A, 1.75V/cell)
	156.0 Ah	(3hr, 52.0A, 1.75V/cell)
Max. Discharge Current	1600A (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 60A. Voltage	
	2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Cycle Use	Initial Charging Current less than 60A. 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)

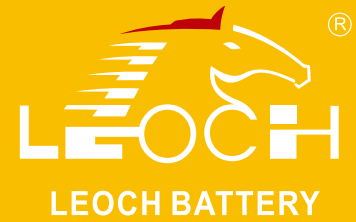
F.V/Time	30min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	128.7	91.5	84.5	61.5	46.8	37.7	31.8	27.6	22.4	18.7	10.0
1.80V/cell	141.2	99.4	87.4	64.3	50.6	40.6	34.2	29.6	24.0	20.0	10.6
1.75V/cell	164.2	111.2	91.2	67.2	52.0	41.6	35.0	30.2	24.4	20.3	10.7
1.70V/cell	176.7	124.0	94.7	69.4	53.5	42.6	35.8	30.9	24.9	20.6	10.9
1.67V/cell	181.8	125.9	95.6	70.2	54.3	43.2	36.2	31.2	25.1	20.8	11.0
1.60V/cell	183.9	131.9	98.9	72.2	56.4	43.8	36.8	31.7	25.6	21.1	11.1

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	240.3	193.9	154.2	115.4	91.8	74.0	62.5	54.4	44.3	37.1	20.0
1.80V/cell	258.3	203.7	157.1	121.1	98.9	79.5	67.2	58.2	47.3	39.5	21.1
1.75V/cell	296.2	214.3	163.7	125.8	101.1	81.2	68.5	59.2	48.1	40.1	21.3
1.70V/cell	315.1	217.7	167.1	128.1	103.6	82.9	69.8	60.4	48.8	40.6	21.6
1.67V/cell	320.4	220.2	169.6	128.9	104.8	83.9	70.6	61.0	49.3	40.9	21.7
1.60V/cell	349.4	234.8	173.4	139.2	108.1	86.2	72.4	62.4	50.3	41.9	22.1



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LPL Series-Long Life Standby LPL2-200M(2V200Ah)

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

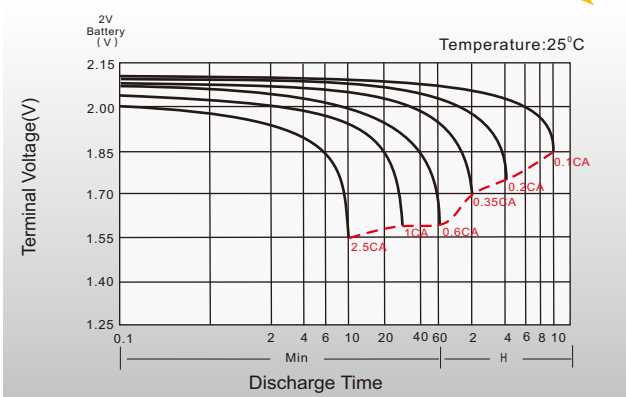
General Features

- 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

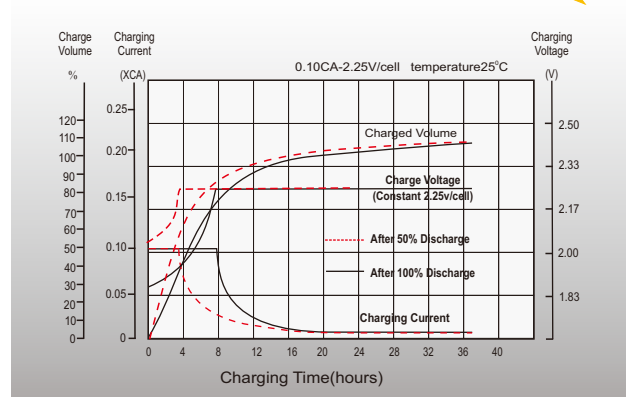
Standards

- 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

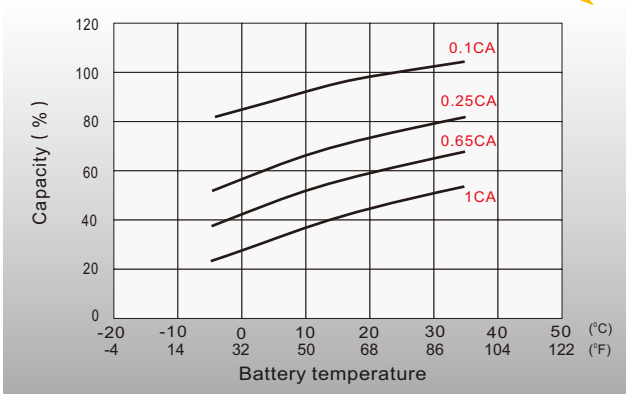
Discharge Characteristics



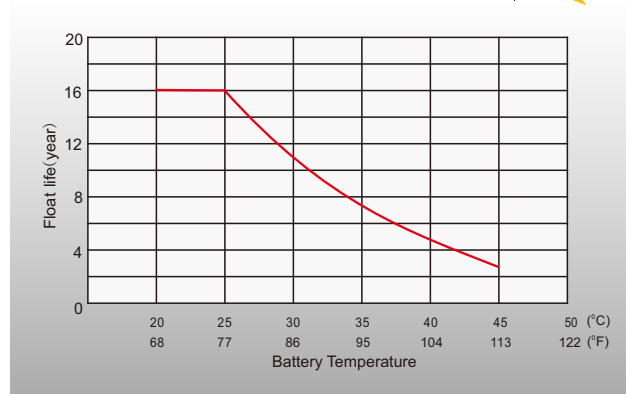
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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