



LPL Series-Long Life Standby

LPL2-200(2V200Ah)

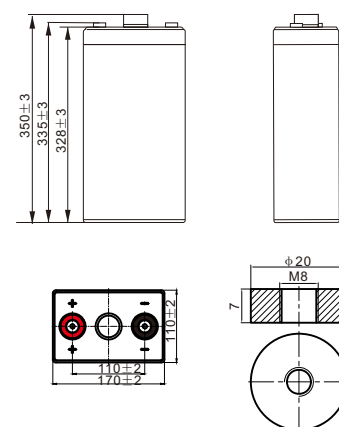


Specifications

Rated Voltage	2V	
Nominal Capacity	200.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	170±2mm (6.69 inches)
	Width	110±2mm (4.33 inches)
	Container Height	328±3mm (12.91 inches)
	Total Height	350±3mm (13.78 inches)
Approx Weight	13.7 Kg (30.2 lbs)	
Terminal	M8	
Container Material	ABS or PP	
Rated Capacity (25°C)	214.0 Ah	(20hr, 10.7A, 1.80V/cell)
	200.0 Ah	(10hr, 20.0A, 1.80V/cell)
	177.5 Ah	(5hr, 35.5A, 1.75V/cell)
	154.5 Ah	(3hr, 51.5A, 1.75V/cell)
	120.1 Ah	(1hr, 120.1A, 1.60V/cell)
Max. Discharge Current	1600A (5s)	
Internal Resistance (25°C)	Approx 1.0mΩ	
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 60.0A. Voltage	
	2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 60.0A. 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	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	201.2	181.2	150.1	120.3	100.3	62.2	47.5	38.8	33.0	28.9	23.1	19.3	10.3
1.80V/cell	228.7	201.8	161.0	126.6	104.9	65.0	49.8	40.5	34.4	30.2	24.1	20.0	10.7
1.75V/cell	251.2	217.5	170.5	133.1	109.5	67.6	51.5	41.9	35.5	30.9	24.6	20.3	10.7
1.70V/cell	268.2	232.8	178.9	138.1	113.3	70.3	53.1	42.8	36.1	31.4	25.0	20.5	10.8
1.65V/cell	282.6	244.2	187.7	144.1	117.4	72.6	54.3	43.8	36.9	32.0	25.4	20.7	11.0
1.60V/cell	296.3	253.2	194.1	148.0	120.1	74.0	55.2	44.4	37.4	32.4	25.8	21.0	11.0

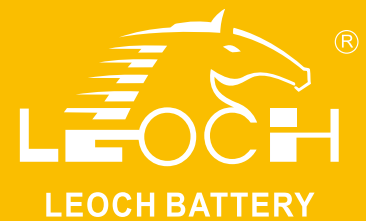
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	381.0	344.7	286.8	231.3	194.0	121.0	92.8	76.1	65.1	57.0	45.8	38.3	20.5
1.80V/cell	427.4	379.8	305.3	241.8	201.8	125.8	96.9	79.3	67.5	59.4	47.7	39.7	21.2
1.75V/cell	462.9	404.7	320.8	252.7	209.6	130.3	99.8	81.7	69.4	60.6	48.5	40.2	21.3
1.70V/cell	489.1	429.3	333.8	260.4	215.8	135.0	102.6	83.1	70.4	61.5	49.3	40.6	21.5
1.65V/cell	509.0	445.6	347.5	270.3	222.3	138.8	104.4	84.6	71.6	62.4	49.9	41.0	21.7
1.60V/cell	524.8	456.8	355.8	274.9	226.0	140.6	105.7	85.4	72.4	63.1	50.5	41.6	21.8



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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

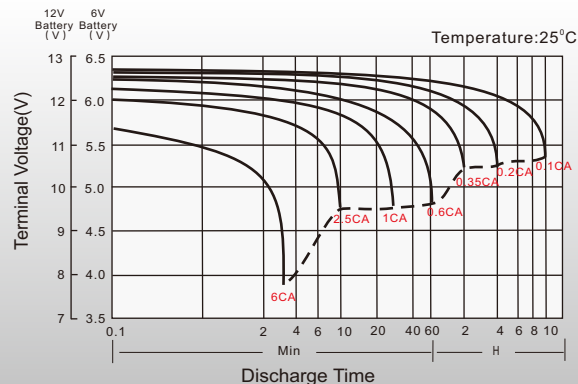
General Features

- 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

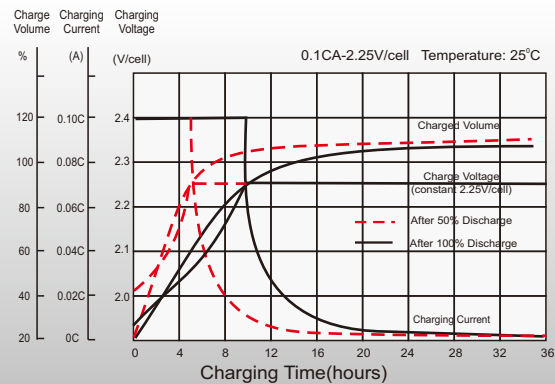
Standards

- 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

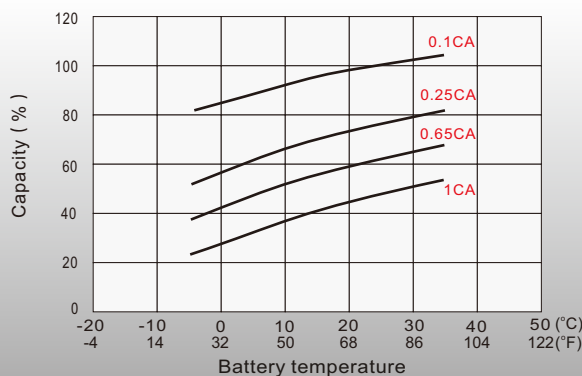
Discharge Characteristics



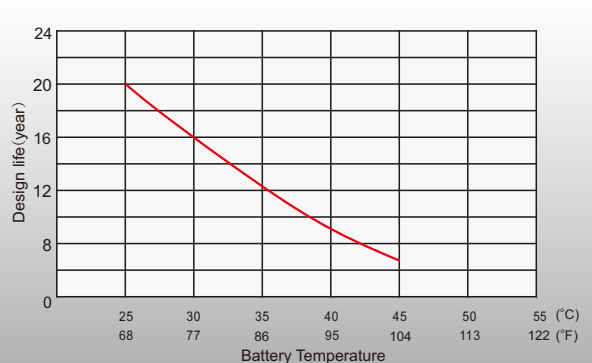
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Design Life



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Publication No.: LP-LPL2-200-SGTHSE-V2.1-201909