



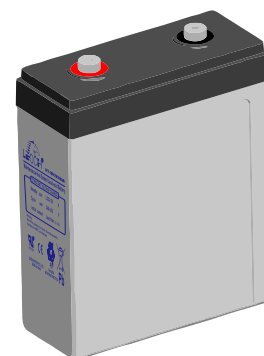
LPL Series-Long Life Standby

LPL2-100(2V100Ah)

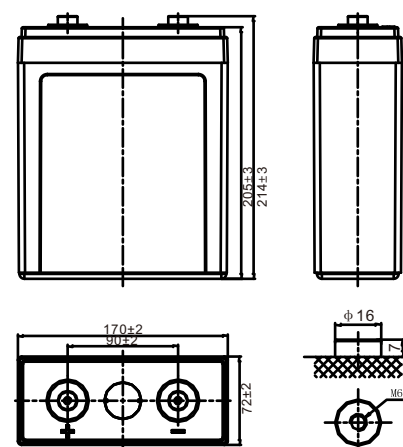


Specifications

Rated Voltage	2V	
Nominal Capacity	100.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	170±2mm (6.69 inches)
	Width	72±2mm (2.83 inches)
	Container Height	205±3mm (8.07 inches)
	Total Height	214±3mm (8.42 inches)
Approx Weight	5.9 Kg (13.0 lbs)	
Terminal	M6	
Container Material	ABS or PP	
Rated Capacity (25°C)	106.8 Ah	(20hr, 5.34A, 1.80V/cell)
	100.0 Ah	(10hr, 10.0A, 1.80V/cell)
	88.5 Ah	(5hr, 17.7A, 1.75V/cell)
	77.1 Ah	(3hr, 25.7A, 1.75V/cell)
	60.1 Ah	(1hr, 60.1A, 1.60V/cell)
Max. Discharge Current	800A (5s)	
Internal Resistance (25°C)	Approx 1.4mΩ	
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 30.0A. Voltage	
	2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 30.0A. 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	100.6	90.6	75.0	60.2	50.2	31.1	23.7	19.4	16.5	14.4	11.6	9.63	5.15
1.80V/cell	114.3	100.9	80.5	63.3	52.5	32.5	24.9	20.3	17.2	15.1	12.1	10.0	5.34
1.75V/cell	125.6	108.8	85.3	66.6	54.7	33.8	25.7	21.0	17.7	15.4	12.3	10.1	5.36
1.70V/cell	134.1	116.4	89.5	69.1	56.6	35.2	26.5	21.4	18.1	15.7	12.5	10.3	5.42
1.65V/cell	141.3	122.1	93.8	72.1	58.7	36.3	27.1	21.9	18.4	16.0	12.7	10.4	5.48
1.60V/cell	148.1	126.6	97.1	74.0	60.1	37.0	27.6	22.2	18.7	16.2	12.9	10.5	5.52

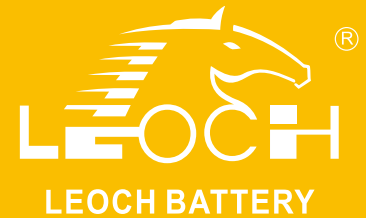
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	190.5	172.3	143.4	115.7	97.0	60.5	46.4	38.1	32.6	28.5	22.9	19.2	10.3
1.80V/cell	213.7	189.9	152.6	120.9	100.9	62.9	48.4	39.6	33.8	29.7	23.8	19.9	10.6
1.75V/cell	231.5	202.4	160.4	126.4	104.8	65.2	49.9	40.8	34.7	30.3	24.3	20.1	10.6
1.70V/cell	244.6	214.7	166.9	130.2	107.9	67.5	51.3	41.6	35.2	30.8	24.7	20.3	10.8
1.65V/cell	254.5	222.8	173.8	135.1	111.2	69.4	52.2	42.3	35.8	31.2	25.0	20.5	10.9
1.60V/cell	262.4	228.4	177.9	137.5	113.0	70.3	52.8	42.7	36.2	31.5	25.3	20.8	10.9



LPL Series-Long Life Standby

LPL2-100(2V100Ah)



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

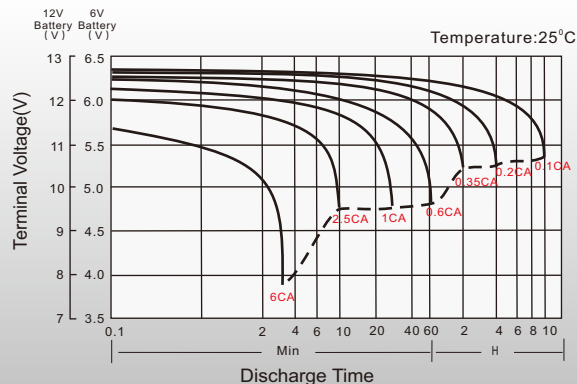
General Features

- 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

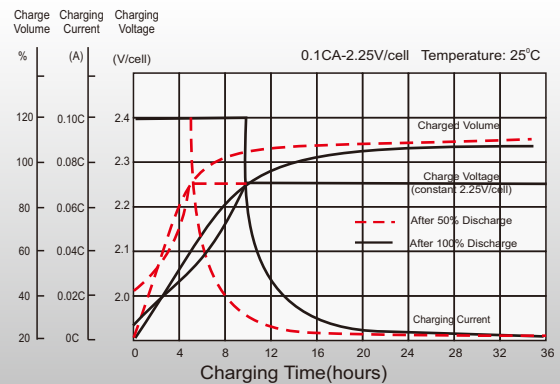
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch® IATF 16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

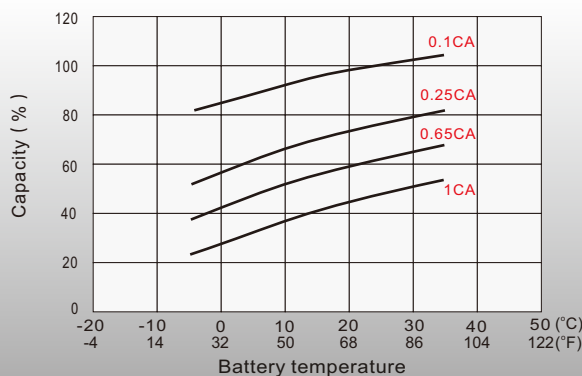
Discharge Characteristics



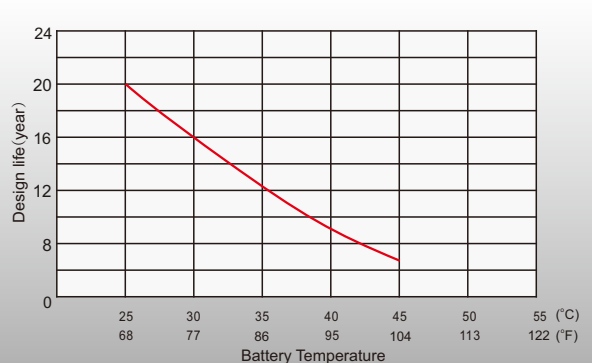
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Design Life



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