



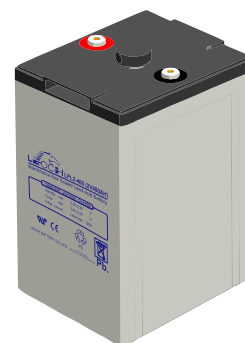
LPL Series-Long Life Standby

LPL2-400(2V400Ah)

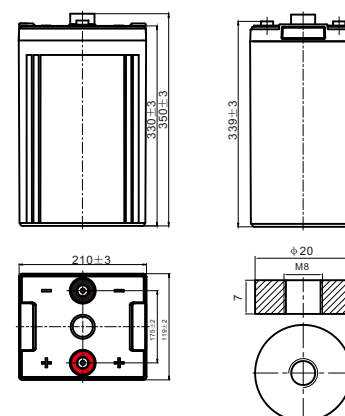


Specifications

Rated Voltage	2V	
Nominal Capacity	400.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	210±3mm (8.27 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±3mm (12.99 inches)
	Total Height	350±3mm (13.78 inches)
Approx Weight	25.5 Kg (56.2 lbs)	
Terminal	M8	
Container Material	ABS or PP	
Rated Capacity (25°C)	426.0 Ah	(20hr, 21.3A, 1.80V/cell)
	400.0 Ah	(10hr, 40.0A, 1.80V/cell)
	355.0 Ah	(5hr, 71.0A, 1.75V/cell)
	308.7 Ah	(3hr, 102.9A, 1.75V/cell)
	240.3 Ah	(1hr, 240.3A, 1.60V/cell)
Max. Discharge Current	3200A (5s)	
Internal Resistance (25°C)	Approx 0.7mΩ	
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 120.0A. Voltage	
	2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 120.0A. 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)

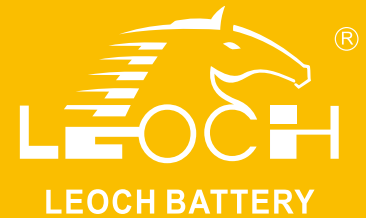
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	402.4	362.4	300.1	240.6	200.6	124.4	94.9	77.6	66.1	57.7	46.2	38.5	20.6
1.80V/cell	457.3	403.6	322.0	253.2	209.8	130.0	99.6	81.1	68.9	60.3	48.2	40.0	21.3
1.75V/cell	502.5	435.1	341.0	266.2	218.9	135.2	102.9	83.8	71.0	61.7	49.2	40.5	21.4
1.70V/cell	536.4	465.5	357.8	276.2	226.6	140.6	106.1	85.7	72.2	62.8	50.0	41.0	21.7
1.65V/cell	565.3	488.4	375.4	288.3	234.7	145.2	108.5	87.5	73.8	63.9	50.8	41.5	21.9
1.60V/cell	592.5	506.4	388.2	296.0	240.3	148.0	110.4	88.7	74.8	64.8	51.5	42.1	22.1

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	761.9	689.3	573.6	462.7	388.1	242.0	185.5	152.2	130.2	114.1	91.7	76.6	41.0
1.80V/cell	854.8	759.6	610.5	483.6	403.6	251.7	193.7	158.5	135.1	118.7	95.4	79.4	42.4
1.75V/cell	925.8	809.5	641.6	505.5	419.2	260.7	199.7	163.3	138.8	121.1	97.0	80.4	42.6
1.70V/cell	978.3	858.7	667.5	520.9	431.6	270.0	205.1	166.2	140.7	123.1	98.6	81.3	43.0
1.65V/cell	1018.0	891.2	695.0	540.5	444.6	277.6	208.8	169.2	143.3	124.8	99.8	82.1	43.4
1.60V/cell	1049.5	913.5	711.6	549.8	451.9	281.2	211.3	170.8	144.7	126.2	101.1	83.1	43.7



LPL Series-Long Life Standby LPL2-400(2V400Ah)



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

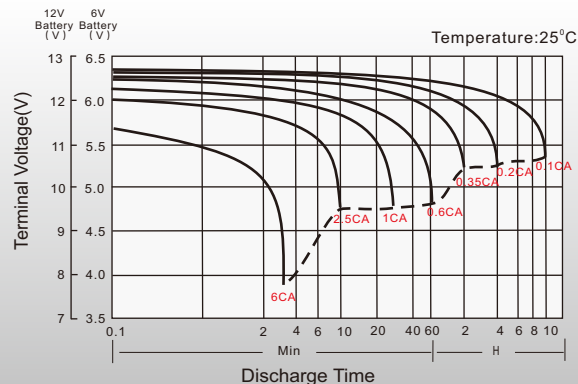
General Features

- 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

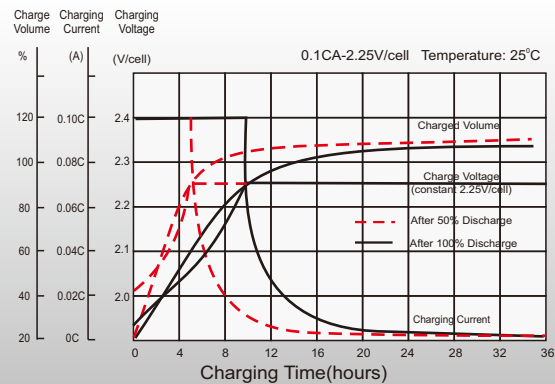
Standards

- 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

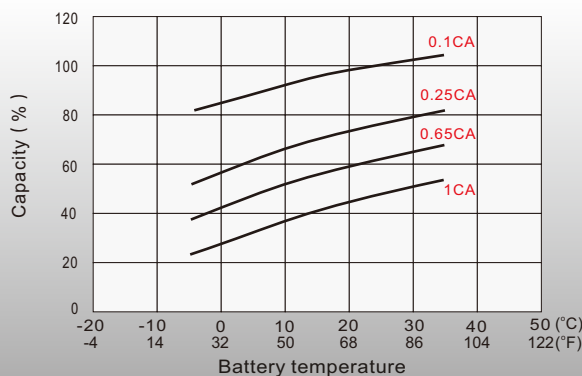
Discharge Characteristics



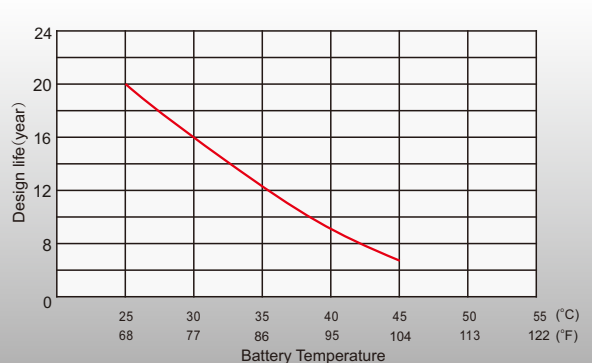
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Design Life



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