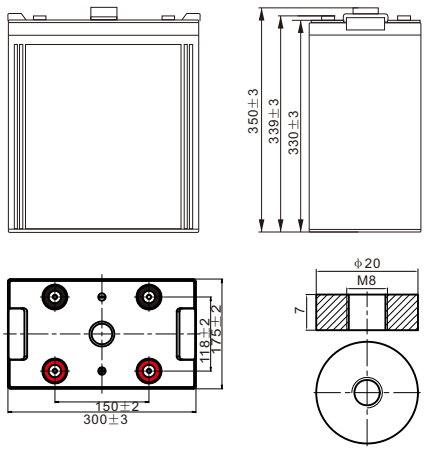
EAGLE EYE
POWER SOLUTIONS

LPL Series-Long Life Standby
LPL2-600(2V600Ah)

Specifications

Rated Voltage		2V
Nominal Capacity	600.0Ah	(C_{10},1.80V/cell)
Dimension	Length Width Container Height Total Height	300±3mm (11.81 inches) 175±2mm (6.89 inches) 330±3mm (12.99 inches) 350±3mm (13.78 inches)
Approx Weight		36.6 Kg (80.7 lbs)
Terminal		M8
Container Material		ABS or PP
Rated Capacity (25°C)	640.0 Ah 600.0 Ah 532.5 Ah 463.2 Ah 360.4 Ah	(20hr,32.0A,1.80V/cell) (10hr,60.0A,1.80V/cell) (5hr,106.5A,1.75V/cell) (3hr,154.4A,1.75V/cell) (1hr,360.4A,1.60V/cell)
Max. Discharge Current		4800A (5s)
Internal Resistance (25℃)		Approx 0.55mΩ
Operating Temp.Range	Discharge Charge Storage	-15 ~ 50°C (5 ~ 122°F) 0 ~ 40°C (32 ~ 104°F) -15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temp. Range		25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 180.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 180.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Effect of temp. to Capacity	40°C (104°F) 25°C (77°F) 0°C (32°F)	103% 100% 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	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	450.2	361.0	301.0	186.6	142.4	116.4	99.1	86.6	69.3	57.8	30.9
1.80V/cell	483.1	379.8	314.7	195.0	149.4	121.6	103.3	90.5	72.3	60.0	32.0
1.75V/cell	511.6	399.3	328.4	202.8	154.4	125.8	106.5	92.6	73.7	60.8	32.2
1.70V/cell	536.7	414.4	339.9	210.9	159.2	128.5	108.3	94.2	75.0	61.5	32.5
1.65V/cell	563.0	432.4	352.1	217.8	162.8	131.3	110.6	95.9	76.1	62.2	32.9
1.60V/cell	582.3	444.0	360.4	222.0	165.6	133.1	112.2	97.2	77.3	63.1	33.1

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

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	860.4	694.0	582.1	363.0	278.3	228.4	195.3	171.1	137.5	114.9	61.5
1.80V/cell	915.8	725.3	605.3	377.5	290.6	237.8	202.6	178.1	143.0	119.2	63.6
1.75V/cell	962.4	758.2	628.8	391.0	299.5	245.0	208.1	181.7	145.5	120.6	63.9
1.70V/cell	1001.3	781.3	647.4	404.9	307.7	249.3	211.1	184.6	147.9	121.9	64.5
1.65V/cell	1042.5	810.8	666.9	416.4	313.3	253.8	214.9	187.3	149.7	123.1	65.1
1.60V/cell	1067.4	824.8	677.9	421.8	317.0	256.2	217.1	189.3	151.6	124.7	65.5

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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

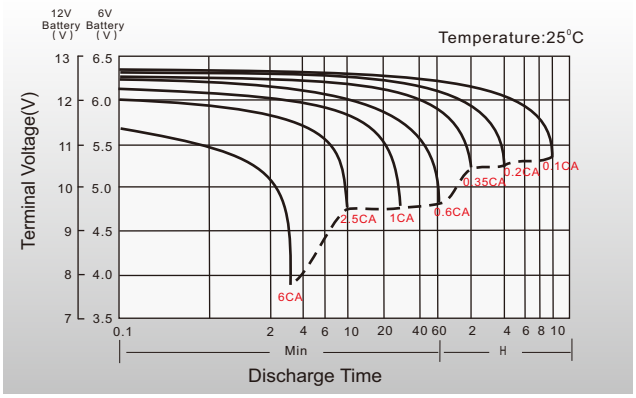
General Features

- 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

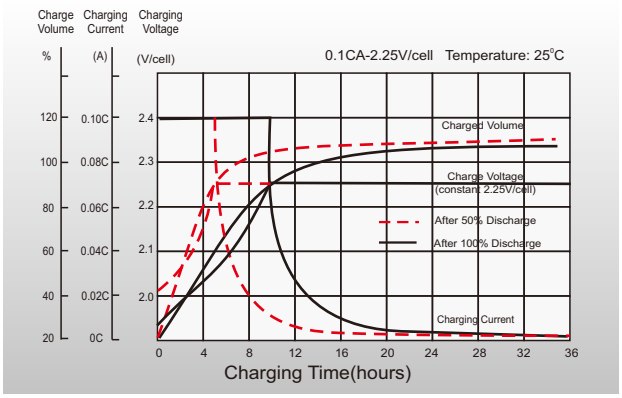
Standards

- 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

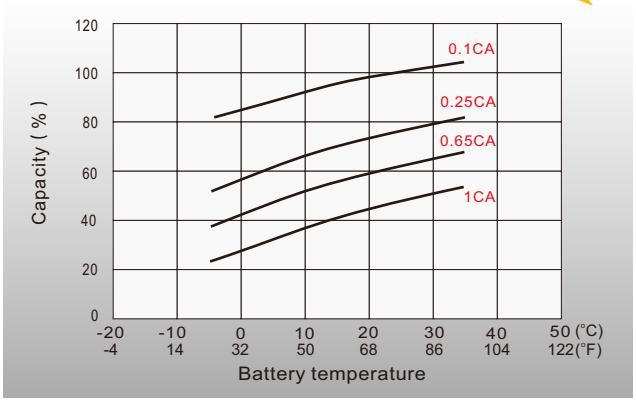
Discharge Characteristics



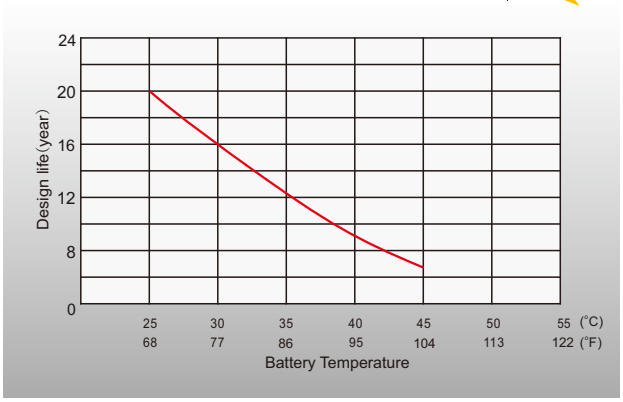
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Design Life



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