EAGLE EYE
POWER SOLUTIONS

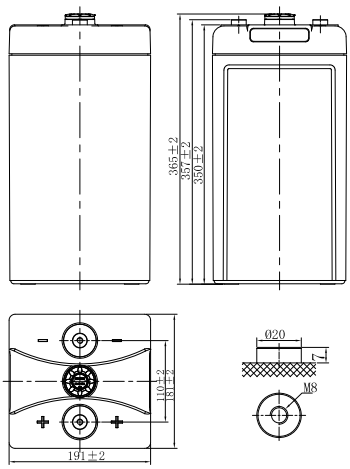
LPL Series-Long Life Standby

LPL2-500M(2V500Ah)

Specifications

Rated Voltage		2V
Nominal Capacity	500.0Ah	(C_{10},1.80V/cell)
Dimension	Length Width Container Height Total Height	191±2mm (7.52 inches) 181±2mm (7.13 inches) 350±2mm (13.78 inches) 365±2mm (14.37 inches)
Approx Weight		28.3 Kg (62.39 lbs)
Terminal		M8
Container Material		ABS
Rated Capacity (25°C)	530.0Ah 500.0Ah 437.5 Ah 390.0 Ah 292.0Ah	(20hr,26.5A,1.80V/cell) (10hr,50.0A,1.80V/cell) (5hr,87.5A,1.75V/cell) (3hr,130.0A,1.75V/cell) (1hr,292.0A,1.67V/cell)
Max. Discharge Current		4000A (5s)
Internal Resistance (25°C)		Approx 0.42mΩ
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 150.0A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	Initial Charging Current less than 150.0A. 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	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	324.8	230.2	201.6	152.2	117.0	94.1	79.4	69.0	56.0	46.9	25.1
1.80V/cell	356.9	253.9	206.5	162.0	126.6	101.5	85.6	74.0	60.0	50.0	26.5
1.75V/cell	414.3	273.7	216.4	169.0	130.0	104.0	87.5	75.5	61.1	50.8	26.8
1.70V/cell	447.4	288.5	226.3	174.2	133.8	106.6	89.5	77.1	62.2	51.6	27.2
1.67V/cell	460.3	292.0	227.4	175.5	135.8	108.1	90.6	78.1	62.8	52.0	27.4
1.60V/cell	472.5	305.2	229.0	182.9	140.8	111.7	93.4	80.2	64.3	53.1	27.9

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	617.5	487.2	395.8	296.6	229.5	185.0	156.4	136.0	110.7	92.7	49.9
1.80V/cell	664.2	511.5	403.6	311.2	247.3	198.7	167.9	145.5	118.3	98.8	52.6
1.75V/cell	761.5	537.8	420.1	323.8	252.8	202.9	171.2	148.1	120.2	100.2	53.3
1.70V/cell	810.1	545.8	429.0	332.6	258.9	207.3	174.6	150.9	122.1	101.6	53.9
1.67V/cell	823.9	552.0	433.0	336.1	262.1	209.6	176.4	152.4	123.2	102.4	54.3
1.60V/cell	873.5	572.9	433.5	348.1	270.2	215.5	181.0	156.1	125.7	104.3	55.2

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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

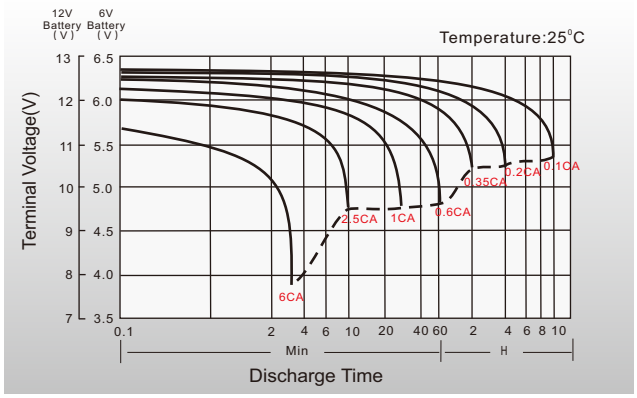
General Features

- 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

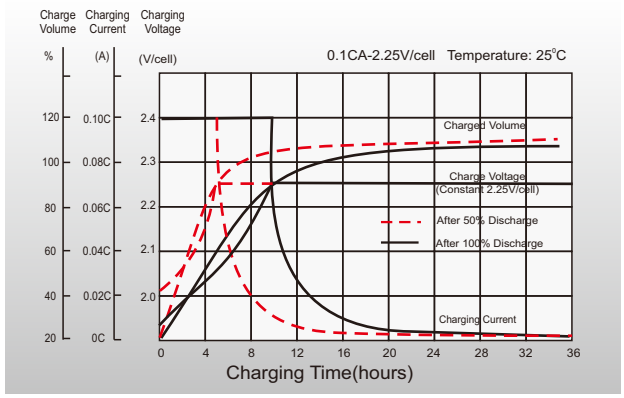
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF16949, OHSAS 18001,ISO 9001 and ISO 14001 certified production facilities

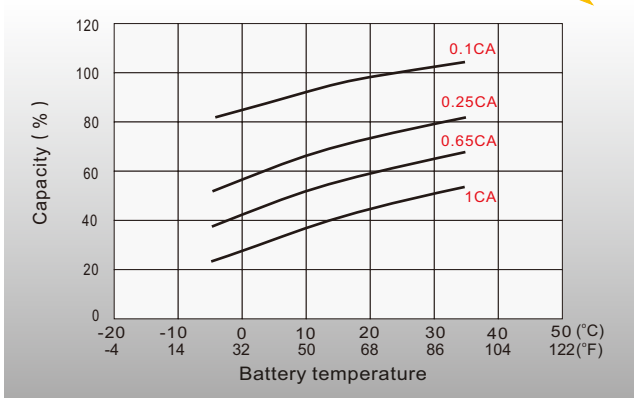
Discharge Characteristics



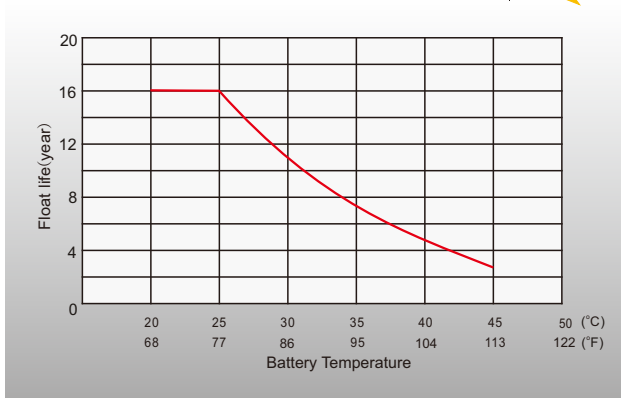
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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