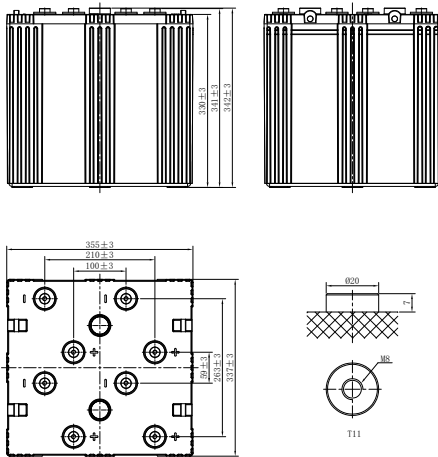


# LPL SERIES-LONG LIFE STANDBY

## LPL2-1600M (2V1600Ah)



### CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C <sub>10</sub> , 1.80V/cell	1600Ah
Dimension	Length	355mm (14.0inches)
	Width	337mm (13.3inches)
	Container Height	330mm (13.0inches)
	Total Height	342mm (13.5inches)
Approx Weight	91.7kg (202.2lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	12800A	
Internal Resistance (25°C)	Approx 0.3 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	≤3% per month at 25°C (77°F). LPL series batteries may be stored 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.	
Self Discharge		

### DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)												
F. V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1142.2	903.1	790.4	607.7	492.3	374.5	301.2	254.2	220.7	179.3	149.9	80.4
1.80V/cell	1291.3	988.4	869.9	664.8	535.6	401.5	324.7	273.8	236.7	192.0	160.0	84.8
1.75V/cell	1317.6	1008.2	884.6	687.2	552.0	416.0	332.8	280.0	241.6	195.5	162.5	85.9
1.70V/cell	1402.8	1066.4	919.6	710.4	569.6	428.2	341.2	286.4	246.8	199.0	165.0	87.0
1.67V/cell	1451.1	1123.7	952.5	723.2	579.1	434.6	345.9	290.0	249.8	201.0	166.5	87.6
1.60V/cell	1542.4	1172.8	987.5	755.5	603.3	450.6	357.4	298.8	256.7	205.8	170.0	89.2
Constant Power Discharge (Watts/cell) at 25°C (77°F)												
F. V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2207.5	1751.0	1536.3	1184.8	962.1	734.2	592.0	500.4	435.0	354.3	296.7	159.8
1.80V/cell	2474.9	1902.6	1679.5	1288.9	1041.5	783.9	635.9	537.3	465.5	378.6	316.1	168.5
1.75V/cell	2503.9	1925.6	1695.9	1324.1	1067.5	808.8	649.3	547.8	473.9	384.7	320.5	170.5
1.70V/cell	2641.4	2020.8	1750.7	1360.7	1095.9	828.6	663.3	558.7	482.9	390.7	325.0	172.5
1.67V/cell	2706.4	2118.8	1804.8	1380.0	1110.3	838.8	670.9	564.4	487.7	394.3	327.5	173.7
1.60V/cell	2851.9	2188.0	1853.5	1429.7	1148.1	864.6	689.7	579.2	499.4	402.4	333.6	176.6

# LPL SERIES-LONG LIFE STANDBY

## LPL2-1600M (2V1600Ah)



### 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

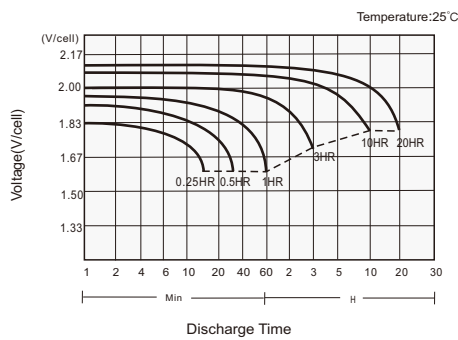
### GENERAL FEATURES

- 16 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

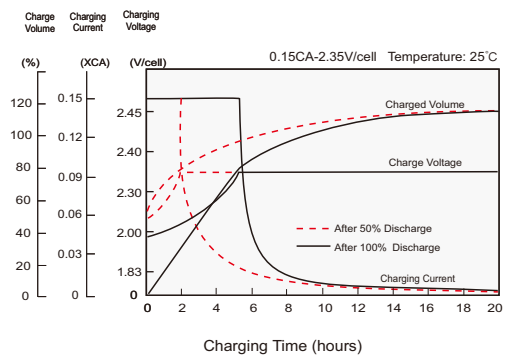
### STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

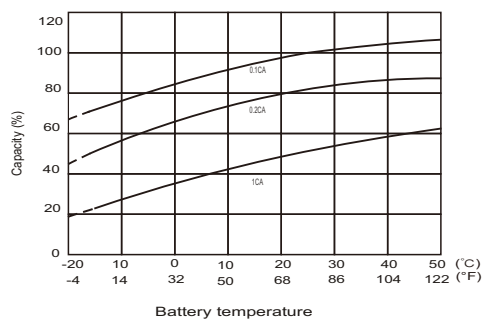
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

