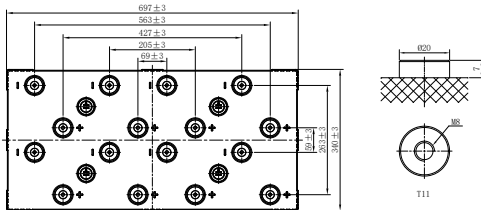
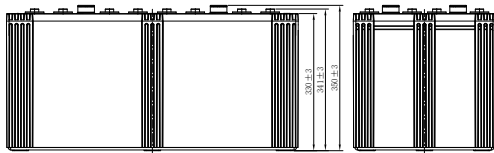


# LPL SERIES-LONG LIFE STANDBY

## LPL2-3000M (2V3000Ah)



### CHARACTERISTICS

| Item                          | Specifications  |                     |
|-------------------------------|---|---------------------|
| Rated Voltage                 | 2V  |                     |
| Nominal Capacity (25°C)       | C <sub>10</sub> : 1.80V/cell  | 3000Ah              |
| Dimension                     | Length  | 697mm (27.4inches)  |
|                               | Width   | 340mm (13.4inches)  |
|                               | Container Height  | 330mm (13.0inches)  |
|                               | Total Height  | 350mm (13.8inches)  |
| Approx Weight                 | 179.1kg (394.8lbs)  |                     |
| Terminal                      | T11(M8)   |                     |
| Container Material            | ABS (UL94 HB or V-0 optional)   |                     |
| Short-circuit current         | 24000A  |                     |
| Internal Resistance (25°C)    | Approx 0.2 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)         | Float Charge  | Equalization Charge |
|                               | 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).<br>LPL series batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required.<br>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   | 1890.0 | 1659.4 | 1481.9 | 1139.3 | 923.0  | 702.2  | 564.8  | 476.6  | 413.7 | 336.2 | 281.1 | 150.7 |
| 1.80V/cell   | 2170.7 | 1816.3 | 1631.1 | 1246.6 | 1004.2 | 752.7  | 608.8  | 513.3  | 443.8 | 360.0 | 300.0 | 159.0 |
| 1.75V/cell   | 2271.2 | 1852.5 | 1658.7 | 1288.5 | 1035.0 | 780.0  | 624.0  | 525.0  | 453.0 | 366.5 | 304.7 | 161.0 |
| 1.70V/cell   | 2417.8 | 1959.5 | 1724.2 | 1332.0 | 1068.0 | 802.8  | 639.7  | 537.0  | 462.8 | 373.1 | 309.4 | 163.1 |
| 1.67V/cell   | 2484.7 | 2064.9 | 1786.0 | 1356.1 | 1085.9 | 814.9  | 648.6  | 543.7  | 468.3 | 376.9 | 312.1 | 164.3 |
| 1.60V/cell   | 2531.0 | 2155.0 | 1851.6 | 1416.6 | 1131.1 | 844.9  | 670.2  | 560.3  | 481.4 | 385.9 | 318.8 | 167.2 |
| 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   | 3470.8 | 3217.5 | 2880.6 | 2221.5 | 1803.9 | 1376.7 | 1109.9 | 938.2  | 815.7 | 664.4 | 556.3 | 299.6 |
| 1.80V/cell   | 3952.1 | 3496.0 | 3149.0 | 2416.7 | 1952.7 | 1469.8 | 1192.2 | 1007.5 | 872.7 | 709.9 | 592.8 | 315.9 |
| 1.75V/cell   | 4099.3 | 3538.3 | 3179.8 | 2482.7 | 2001.5 | 1516.6 | 1217.4 | 1027.2 | 888.5 | 721.4 | 601.0 | 319.7 |
| 1.70V/cell   | 4323.6 | 3713.2 | 3282.5 | 2551.3 | 2054.7 | 1553.7 | 1243.7 | 1047.6 | 905.4 | 732.6 | 609.4 | 323.4 |
| 1.67V/cell   | 4399.6 | 3893.3 | 3384.0 | 2587.5 | 2081.7 | 1572.7 | 1257.9 | 1058.3 | 914.5 | 739.3 | 614.1 | 325.7 |
| 1.60V/cell   | 4442.3 | 4020.4 | 3475.2 | 2680.7 | 2152.6 | 1621.1 | 1293.2 | 1086.0 | 936.3 | 754.4 | 625.5 | 331.1 |

# LPL SERIES-LONG LIFE STANDBY

## LPL2-3000M (2V3000Ah)



### 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

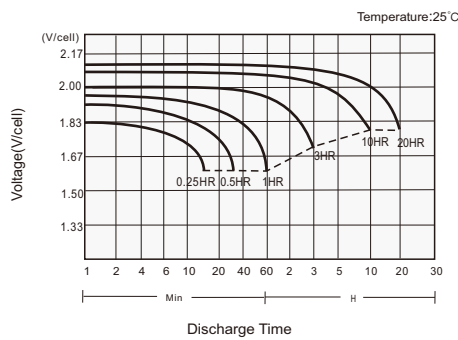
### GENERAL FEATURES

- 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

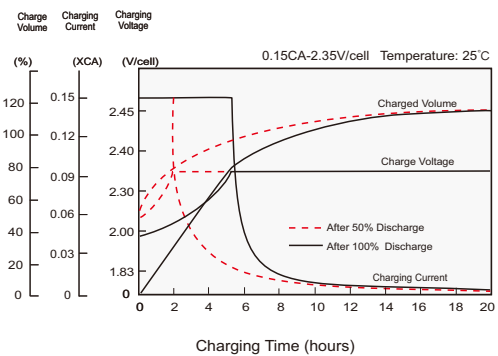
### STANDARDS

- 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

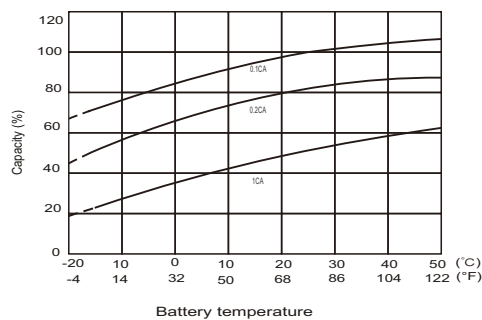
#### Discharge Characteristics



#### Charging Characteristics



#### Effects of Temperature on Capacity



#### Self Discharge Characteristics

