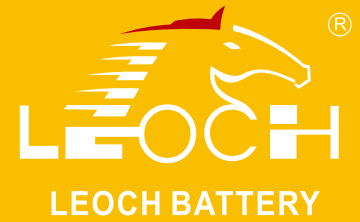




LPL Series-Long Life Standby LPL2-800M(2V800Ah)

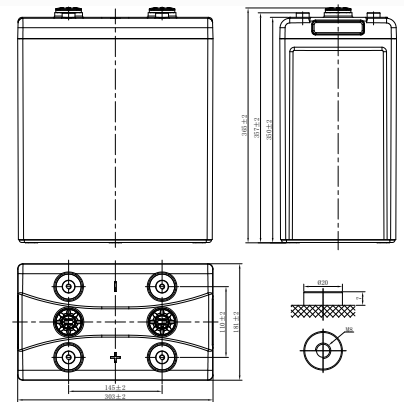


Specifications

| | | |
|-------------------------------|--|---------------------------|
| Rated Voltage | 2V | |
| Nominal Capacity | C ₁₀ , 1.80V/cell | 800Ah |
| Dimension | Length | 303±2mm (11.9 inches) |
| | Width | 181±2mm (7.13 inches) |
| | Container Height | 350±2mm (13.8 inches) |
| | Total Height | 365±2mm (14.4 inches) |
| Approx Weight | 44.5 Kg (98.1 lbs) | |
| Terminal | M8 | |
| Container Material | ABS | |
| Rated Capacity(25°C) | 848.0 Ah | (20hr, 42.4A, 1.80V/cell) |
| | 800.0 Ah | (10hr, 80.0A, 1.80V/cell) |
| | 700.0 Ah | (5hr, 140.0A, 1.75V/cell) |
| | 624.0 Ah | (3hr, 208.0A, 1.75V/cell) |
| | 500.6 Ah | (1hr, 500.6A, 1.60V/cell) |
| Max. Discharge Current | 6400A (5s) | |
| Internal Resistance(25°C) | Approx 0.38mΩ | |
| 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) | |
| Standby Use | Initial Charging Current less than 240A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C | |
| Cycle Use | Initial Charging Current less than 240A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -5mV/°C | |
| | 40°C (104°F) | 103% |
| Effect of temp. to Capacity | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| | 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. | |
| Self Discharge | | |



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

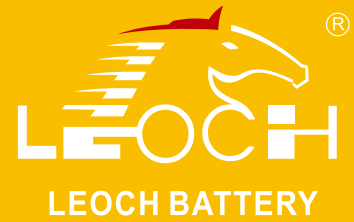
| F.V/Time | 30min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1.85V/cell | 521.0 | 349.7 | 321.4 | 244.3 | 187.2 | 150.6 | 127.1 | 110.3 | 89.7 | 75.0 | 40.2 |
| 1.80V/cell | 573.7 | 417.7 | 331.3 | 259.1 | 202.6 | 162.3 | 136.9 | 118.3 | 96.0 | 80.0 | 42.4 |
| 1.75V/cell | 665.4 | 448.1 | 347.2 | 271.0 | 208.0 | 166.4 | 140.0 | 120.8 | 97.7 | 81.2 | 42.9 |
| 1.70V/cell | 718.1 | 473.4 | 361.0 | 278.0 | 214.1 | 170.6 | 143.2 | 123.4 | 99.5 | 82.5 | 43.5 |
| 1.67V/cell | 738.9 | 480.8 | 363.0 | 279.0 | 217.3 | 173.0 | 145.0 | 124.9 | 100.5 | 83.2 | 43.8 |
| 1.60V/cell | 755.9 | 500.6 | 366.5 | 292.6 | 225.3 | 178.7 | 149.4 | 128.4 | 102.9 | 85.0 | 44.6 |

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 | 992.2 | 801.0 | 635.1 | 476.1 | 367.1 | 296.0 | 250.2 | 217.5 | 177.2 | 148.4 | 79.9 |
| 1.80V/cell | 1066.4 | 842.0 | 648.8 | 500.5 | 395.6 | 317.9 | 268.7 | 232.7 | 189.3 | 158.1 | 84.2 |
| 1.75V/cell | 1222.5 | 885.0 | 674.2 | 520.0 | 404.4 | 324.6 | 273.9 | 236.9 | 192.4 | 160.3 | 85.2 |
| 1.70V/cell | 1300.5 | 898.9 | 687.5 | 528.8 | 414.3 | 331.6 | 279.9 | 241.4 | 195.4 | 162.5 | 86.2 |
| 1.67V/cell | 1322.6 | 909.2 | 691.3 | 538.8 | 419.4 | 335.4 | 282.2 | 243.9 | 197.1 | 163.8 | 86.8 |
| 1.60V/cell | 1397.7 | 939.4 | 693.5 | 557.8 | 432.3 | 344.8 | 289.6 | 249.7 | 201.2 | 166.8 | 88.3 |



LPL Series-Long Life Standby LPL2-800M(2V800Ah)



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

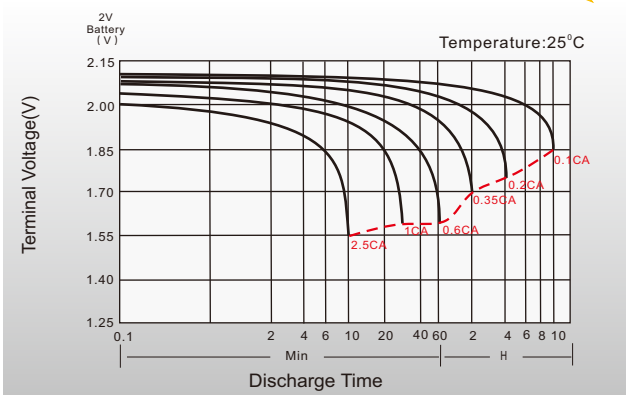
General Features

- 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

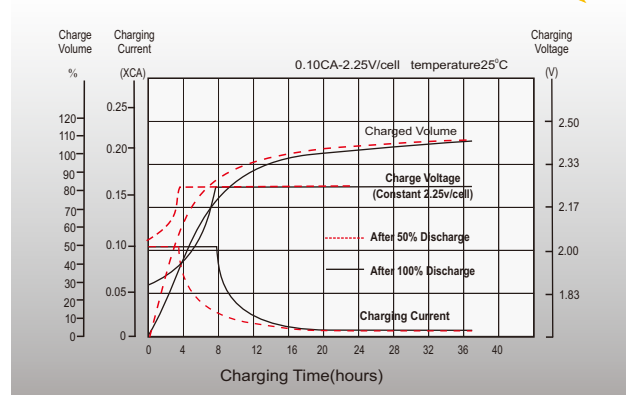
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

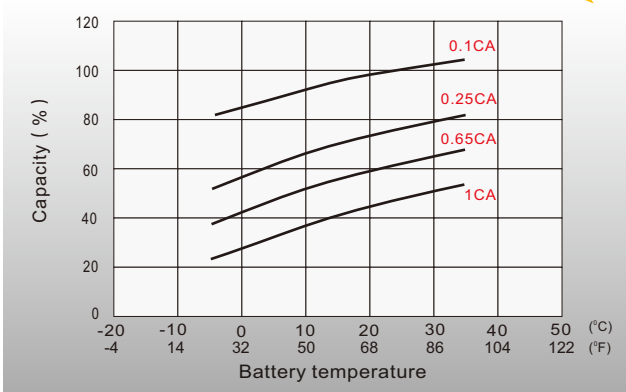
Discharge Characteristics



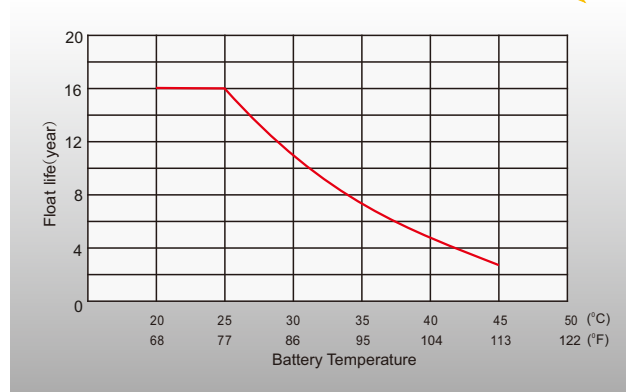
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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