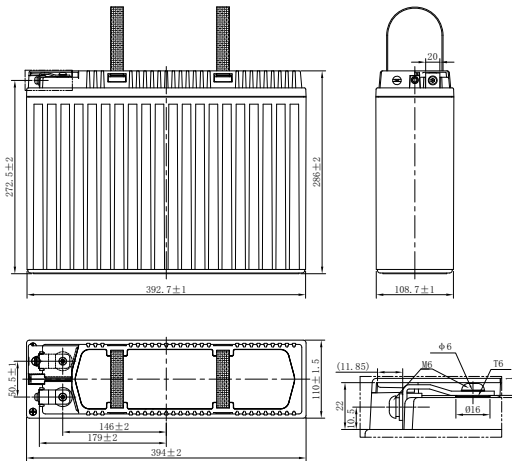


LPF SERIES-FRONT TERMINAL

LPF12-100 (12V100Ah)



CHARACTERISTICS

| Item | Specifications | |
|-------------------------------|---|---------------------|
| Rated Voltage | 12V | |
| Nominal Capacity (25°C) | C ₁₀ : 1.80V/cell | 100Ah |
| Dimension | Length | 394mm (15.5inches) |
| | Width | 110mm (4.33inches) |
| | Container Height | 286mm (11.3inches) |
| | Total Height | 286mm (11.3inches) |
| Approx Weight | 31.0kg (68.3lbs) | |
| Terminal | T6(M6) | |
| Container Material | ABS (UL94 HB or V-0 optional) | |
| Short-circuit current | 1900A | |
| Internal Resistance (25°C) | Approx 5.5 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). LPF 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 | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 128.1 | 117.9 | 82.7 | 74.2 | 52.2 | 31.3 | 23.6 | 18.8 | 15.7 | 13.5 | 11.1 | 9.32 | 4.91 |
| 1.80V/cell | 149.0 | 129.0 | 93.6 | 78.6 | 57.7 | 34.1 | 25.6 | 20.3 | 16.9 | 14.3 | 11.9 | 10.0 | 5.27 |
| 1.75V/cell | 157.6 | 137.1 | 97.8 | 81.6 | 59.9 | 35.1 | 26.2 | 20.8 | 17.3 | 14.4 | 12.1 | 10.1 | 5.29 |
| 1.70V/cell | 166.6 | 144.4 | 102.1 | 83.9 | 62.1 | 36.2 | 27.0 | 21.3 | 17.7 | 14.7 | 12.3 | 10.2 | 5.38 |
| 1.67V/cell | 171.8 | 149.4 | 104.7 | 85.7 | 63.4 | 36.8 | 27.4 | 21.6 | 17.9 | 14.8 | 12.4 | 10.4 | 5.48 |
| 1.60V/cell | 184.1 | 153.2 | 110.6 | 87.0 | 66.4 | 38.4 | 28.4 | 22.3 | 18.5 | 14.9 | 12.7 | 10.6 | 5.58 |
| Constant Power Discharge (Watts/cell) at 25°C (77°F) | | | | | | | | | | | | | |
| F.V/Time | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 246.1 | 228.0 | 159.9 | 145.6 | 101.4 | 61.2 | 46.3 | 37.0 | 31.0 | 27.2 | 21.9 | 18.4 | 9.89 |
| 1.80V/cell | 283.2 | 248.0 | 179.3 | 153.4 | 111.5 | 66.3 | 49.9 | 39.7 | 33.2 | 28.5 | 23.4 | 19.6 | 10.4 |
| 1.75V/cell | 296.5 | 262.2 | 185.8 | 158.8 | 114.8 | 67.9 | 51.0 | 40.6 | 33.9 | 28.8 | 23.8 | 19.8 | 10.5 |
| 1.70V/cell | 309.8 | 273.3 | 192.2 | 162.0 | 118.2 | 69.7 | 52.3 | 41.4 | 34.6 | 29.2 | 24.2 | 20.1 | 10.7 |
| 1.67V/cell | 317.8 | 279.2 | 196.0 | 163.9 | 120.0 | 70.6 | 52.9 | 41.9 | 34.9 | 29.5 | 24.4 | 20.3 | 10.7 |
| 1.60V/cell | 334.3 | 282.3 | 204.5 | 164.7 | 124.7 | 73.0 | 54.5 | 43.1 | 35.8 | 29.8 | 24.9 | 20.6 | 10.9 |

LPF SERIES-FRONT TERMINAL

LPF12-100 (12V100Ah)



APPLICATIONS

- For standard power cabinet
- Network connection equipment of communication system
- Power system of special network of local area network
- Power station systems
- UPS

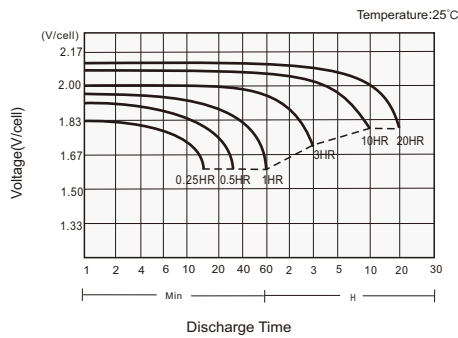
GENERAL FEATURES

- 12+ years design life (25°C)
- Puncture resistant micro-porous glass mat separators extend life
- Flame-arresting, one-way pressure-relief vent for safety and long life
- Front access design for easy installation and maintenance
- Epoxy-sealed posts eliminate leaks

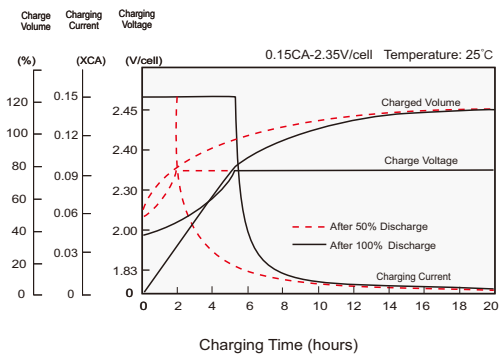
STANDARDS

- 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

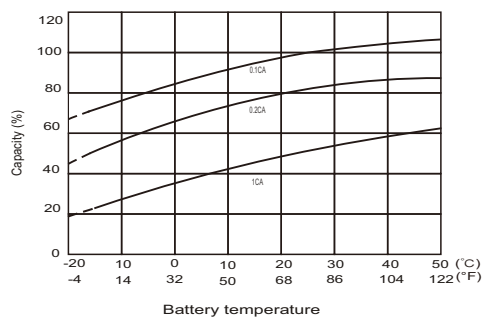
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

