



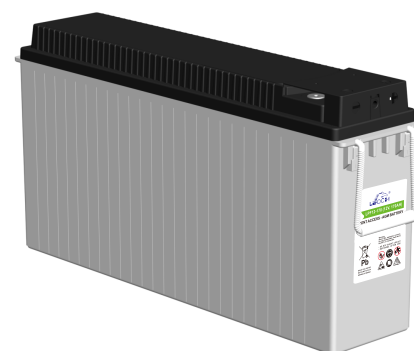
LPF Series-Front Terminal

LPF12-170(12V170Ah)

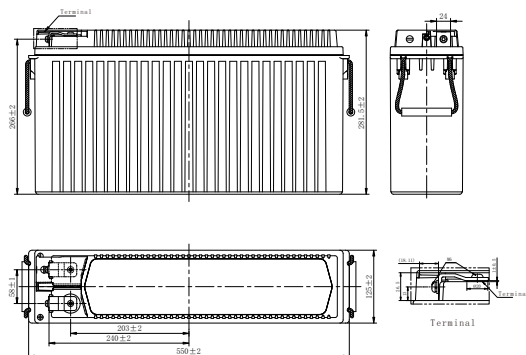


Specifications

| | | |
|-------------------------------|--|---------------------------|
| Rated Voltage | 12V | |
| Nominal Capacity | $C_{10}, 1.80V/cell$ | 170.0Ah |
| Dimension | Length | 550±2mm (21.6 inches) |
| | Width | 125±2mm (4.92 inches) |
| | Container Height | 281.5±2mm (11.1 inches) |
| | Total Height | 281.5±2mm (11.1 inches) |
| Approx Weight | 51.0 Kg (112.5 lbs) | |
| Terminal | M6 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 180.0 Ah | (20hr, 9.00A, 1.80V/cell) |
| | 170.0 Ah | (10hr, 17.0A, 1.80V/cell) |
| | 168.8 Ah | (8hr, 21.1A, 1.75V/cell) |
| | 151.0 Ah | (5hr, 30.2A, 1.75V/cell) |
| | 115.6 Ah | (1hr, 110.3A, 1.60V/cell) |
| Max. Discharge Current | 1700A (5s) | |
| Internal Resistance (25°C) | Approx 4.2mΩ | |
| 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) | |
| Cycle Use | Initial Charging Current less than 54.0A. Voltage 14.1V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C | |
| | Standby Use | |
| Effect of temp. to Capacity | Initial Charging Current less than 54.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C | |
| | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| Self Discharge | 0°C (32°F) | 86% |
| | LPF 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 | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 245.8 | 223.0 | 193.8 | 158.8 | 122.4 | 90.8 | 54.5 | 41.1 | 32.7 | 27.4 | 24.6 | 19.3 | 16.1 | 8.52 |
| 1.80V/cell | 285.6 | 259.3 | 216.2 | 170.7 | 129.4 | 100.5 | 59.3 | 44.5 | 35.3 | 29.5 | 25.2 | 20.7 | 17.0 | 9.00 |
| 1.75V/cell | 315.2 | 274.3 | 230.5 | 177.5 | 133.5 | 104.2 | 61.1 | 45.7 | 36.2 | 30.2 | 25.6 | 21.1 | 17.5 | 9.24 |
| 1.70V/cell | 335.6 | 289.9 | 239.7 | 183.6 | 136.0 | 108.0 | 63.1 | 47.0 | 37.1 | 30.8 | 25.9 | 21.4 | 17.8 | 9.38 |
| 1.67V/cell | 350.9 | 299.0 | 244.8 | 187.3 | 138.9 | 110.3 | 64.1 | 47.7 | 37.6 | 31.2 | 26.2 | 21.6 | 17.9 | 9.47 |
| 1.60V/cell | 366.2 | 320.5 | 251.9 | 192.5 | 141.0 | 115.6 | 66.8 | 49.5 | 38.9 | 32.2 | 26.4 | 22.2 | 18.3 | 9.67 |

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 459.0 | 428.3 | 369.2 | 305.8 | 237.7 | 176.5 | 106.5 | 80.6 | 64.4 | 53.9 | 48.8 | 38.2 | 32.0 | 17.2 |
| 1.80V/cell | 527.1 | 492.9 | 405.9 | 323.7 | 249.4 | 194.0 | 115.3 | 86.8 | 69.1 | 57.9 | 49.9 | 40.8 | 34.0 | 18.1 |
| 1.75V/cell | 572.4 | 516.0 | 428.7 | 333.9 | 254.9 | 199.7 | 118.2 | 88.8 | 70.6 | 59.0 | 50.5 | 41.4 | 34.5 | 18.4 |
| 1.70V/cell | 595.8 | 539.2 | 442.4 | 343.5 | 258.7 | 205.6 | 121.3 | 90.9 | 72.1 | 60.2 | 51.0 | 42.1 | 35.0 | 18.6 |
| 1.67V/cell | 620.6 | 557.6 | 450.0 | 349.8 | 263.4 | 208.9 | 122.9 | 92.1 | 72.9 | 60.8 | 51.4 | 42.5 | 35.3 | 18.7 |
| 1.60V/cell | 629.8 | 581.8 | 456.6 | 355.8 | 264.4 | 217.0 | 127.1 | 94.9 | 75.0 | 62.4 | 51.7 | 43.3 | 35.9 | 19.0 |



LPF Series-Front Terminal

LPF12-170(12V170Ah)



Applications

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

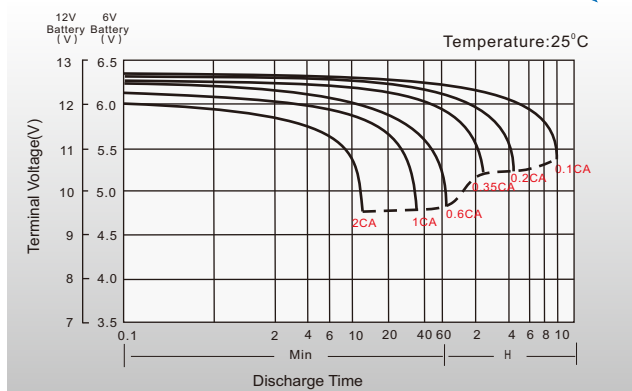
General Features

- 12 years design life(25°C)
- Specifically ideal for 19 inches or 23 inches power cabinets
- Front terminals make the installation, maintenance and supervision easy
- Shield designs protect terminals from short circuit and show good appearance
- Unique vent valve design: reduce water losing and prevent air/spark going inside

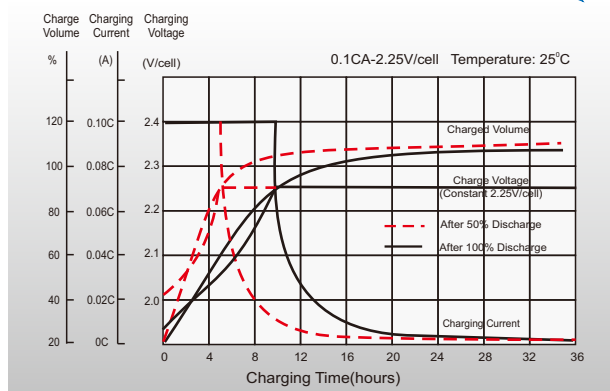
Standards

- 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

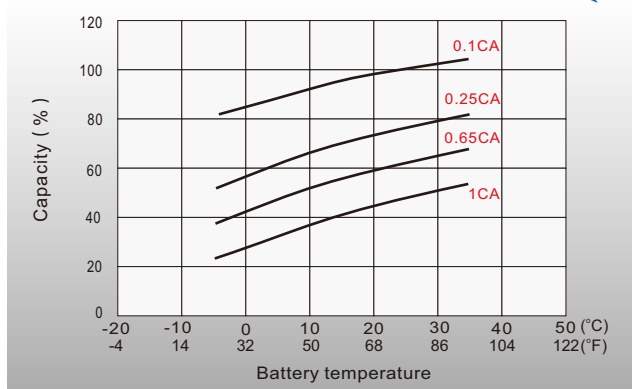
Discharge Characteristics



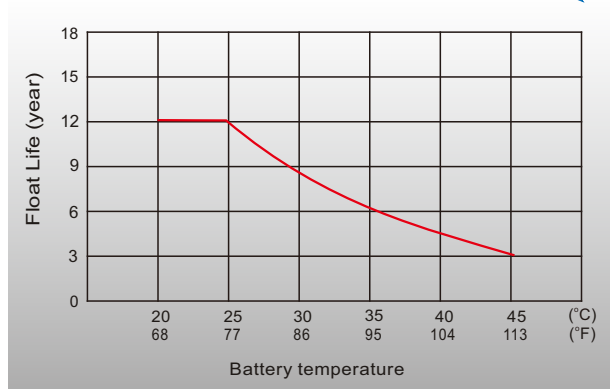
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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