

LPF SERIES-Front Terminal

LPF12-100 (12V100AH)

Specification

| | | |
|----------------------------------|--|-------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity(10HR) | 100.0Ah | |
| Dimension | Length | 394 ± 3mm (15.5 inches) |
| | Width | 110 ± 2mm (4.33 inches) |
| | Container Height | 286 ± 3mm (11.3 inches) |
| | Total Height (with Terminal) | 286 ± 3mm (11.3 inches) |
| Approx Weight | Approx 31.5 Kg (69.4 lbs) | |
| Terminal | T6 | |
| Container Material | ABS | |
| Rated Capacity | 105.4 AH/5.27A | (20hr, 1.80V/cell, 25°C/77°F) |
| | 100.0 AH/10.0A | (10hr, 1.80V/cell, 25°C/77°F) |
| | 86.5 AH/17.3A | (5hr, 1.75V/cell, 25°C/77°F) |
| | 78.6 AH/26.2A | (3hr, 1.75V/cell, 25°C/77°F) |
| | 63.4 AH/63.4A | (1hr, 1.67V/cell, 25°C/77°F) |
| Max. Discharge Current | 1000A (5s) | |
| Internal Resistance | Approx 4.3mΩ | |
| Operating Temp. Range | Discharge | -20~55°C (-4~131°F) |
| | Charge | 0~40°C (32~104°F) |
| | Storage | -15~50°C (5~122°F) |
| Nominal Operating Temp. Range | 25 ± 3°C (77 ± 5°F) | |
| Cycle Use | Initial Charging Current less than 30.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C | |
| | Standby Use No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C | |
| Capacity affected by Temperature | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | Leoch 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. | |



Applications

- ◆ For standard 19 inches or 23 inches power cabinets
- ◆ Network connection equipment of communication system
- ◆ Power system of special network or local area network
- ◆ UPS, standby power supply
- ◆ Power station systems
- ◆ Railway and marine systems



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

| F. V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|------------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 128.1 | 82.7 | 52.2 | 31.3 | 23.6 | 18.8 | 15.7 | 11.1 | 9.32 | 4.91 |
| 1.80V/cell | 149.0 | 93.6 | 57.7 | 34.1 | 25.6 | 20.3 | 16.9 | 11.9 | 10.0 | 5.27 |
| 1.75V/cell | 157.6 | 97.8 | 59.9 | 35.1 | 26.2 | 20.8 | 17.3 | 12.1 | 10.1 | 5.29 |
| 1.70V/cell | 166.6 | 102.1 | 62.1 | 36.2 | 27.0 | 21.3 | 17.7 | 12.3 | 10.2 | 5.38 |
| 1.67V/cell | 171.8 | 104.7 | 63.4 | 36.8 | 27.4 | 21.6 | 17.9 | 12.4 | 10.4 | 5.48 |
| 1.60V/cell | 184.1 | 110.6 | 66.4 | 38.4 | 28.4 | 22.3 | 18.5 | 12.7 | 10.6 | 5.58 |

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

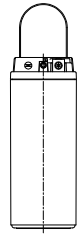
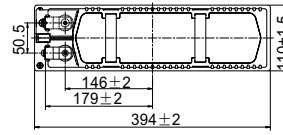
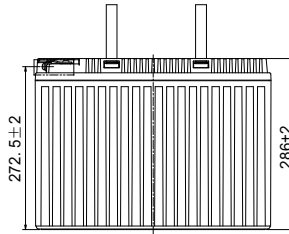
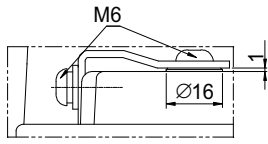
| F. V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|------------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 246.1 | 159.9 | 101.4 | 61.2 | 46.3 | 37.0 | 31.0 | 21.9 | 18.4 | 9.89 |
| 1.80V/cell | 283.2 | 179.3 | 111.5 | 66.3 | 49.9 | 39.7 | 33.2 | 23.4 | 19.6 | 10.4 |
| 1.75V/cell | 296.5 | 185.8 | 114.8 | 67.9 | 51.0 | 40.6 | 33.9 | 23.8 | 19.8 | 10.5 |
| 1.70V/cell | 309.8 | 192.2 | 118.2 | 69.7 | 52.3 | 41.4 | 34.6 | 24.2 | 20.1 | 10.7 |
| 1.67V/cell | 317.8 | 196.0 | 120.0 | 70.6 | 52.9 | 41.9 | 34.9 | 24.4 | 20.3 | 10.7 |
| 1.60V/cell | 334.3 | 204.5 | 124.7 | 73.0 | 54.5 | 43.1 | 35.8 | 24.9 | 20.6 | 10.9 |

Specifications subject to change without notice.

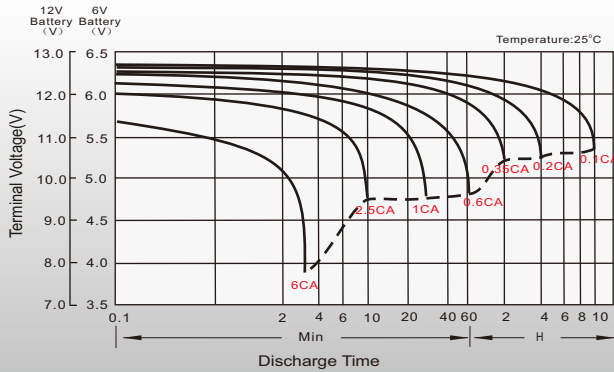
Dimensions

T6 Terminal

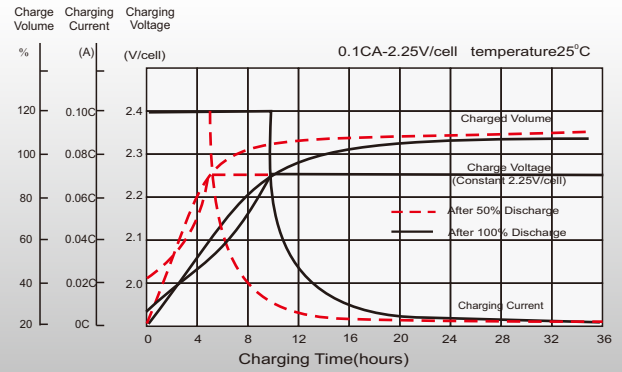
Unit: mm [inches]



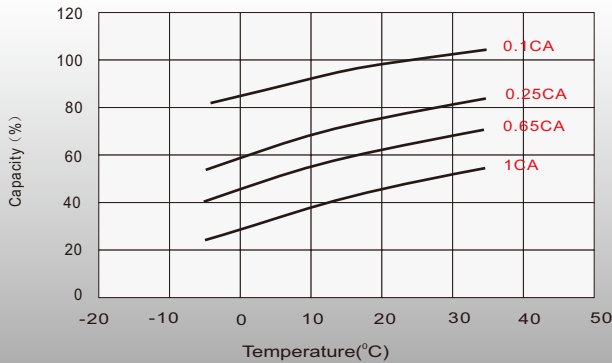
Discharge Characteristics



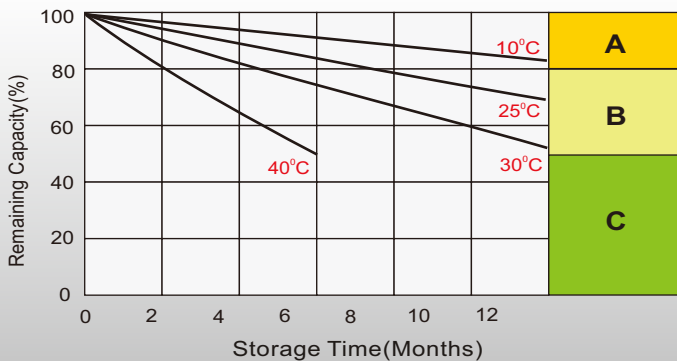
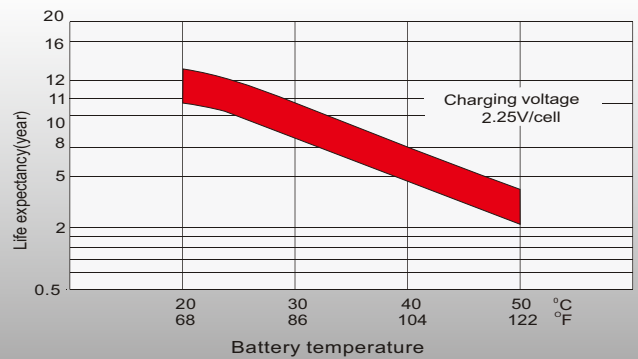
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
 2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
 3. Charged for 8~10hours at limited current 0.05CA .
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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