



PLH-Pure Lead Long Standby Life

PLH150FT(A) (12V150Ah)

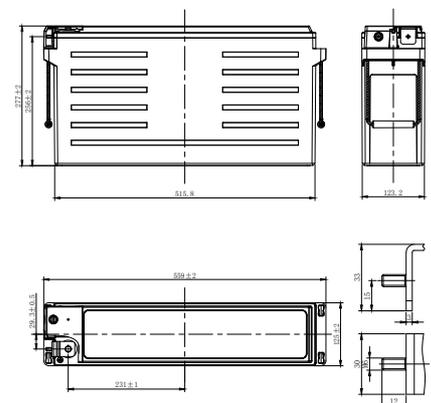


Specifications

| | | |
|-------------------------------|--|---------------------------|
| Rated Voltage | 12V | |
| Nominal Capacity | C ₁₀ , 1.80V/cell | 150Ah |
| | C ₈ , 1.75V/cell | 150Ah |
| Dimension | Length | 559±2mm (22.01 inches) |
| | Width | 125±2mm (4.92 inches) |
| | Container Height | 277±2mm (10.9 inches) |
| | Total Height | 277±2mm (10.9 inches) |
| Approx. Weight | 48.0 Kg (105.8 lbs) | |
| Terminal | M6 | |
| Container Material | PC-ABS flame retardant jar and cover to UL94 V-0 | |
| Rated Capacity (25°C) | 156.0 Ah | (20hr, 7.80A, 1.80V/cell) |
| | 150.0 Ah | (10hr, 15.0A, 1.80V/cell) |
| | 132.5 Ah | (5hr, 26.5A, 1.75V/cell) |
| | 119.1 Ah | (3hr, 39.7A, 1.75V/cell) |
| | 101.2 Ah | (1hr, 101.2A, 1.67V/cell) |
| Max. Discharge Current | 1800A | |
| Internal Resistance (25°C) | Approx. 3.7mΩ(Fully charged) | |
| Operating Temp.Range | Discharge | -40 ~ 65°C (-40 ~ 149°F) |
| | Charge | 0 ~ 54°C (32 ~ 129°F) |
| | Storage | -20 ~ 40°C (-4 ~ 104°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | |
| Max.Charging Current(25°C) | 45.0A | |
| Charge voltage(25°C) | Float | 13.62V |
| | Temp. Coefficient | -3mV/cell/°C |
| | Equalization | 14.1~14.4V |
| Effect of temp. to Capacity | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | <p>PLH series batteries can be stored up to 24 months at 25°C(77°F), For higher temperatures the time interval will be shorter.</p> <p>Battery needs to be given a freshening charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first.</p> | |



Layout



Unit: mm

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

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 268.7 | 230.4 | 198.4 | 152.1 | 113.6 | 90.7 | 51.0 | 37.0 | 29.6 | 24.7 | 17.9 | 14.5 | 7.65 |
| 1.80V/cell | 300.2 | 250.6 | 212.4 | 160.8 | 119.1 | 94.8 | 53.3 | 38.6 | 30.9 | 25.8 | 18.5 | 15.0 | 7.80 |
| 1.75V/cell | 323.4 | 266.1 | 224.4 | 166.8 | 123.3 | 97.9 | 54.6 | 39.7 | 31.7 | 26.5 | 18.8 | 15.2 | 7.89 |
| 1.70V/cell | 347.5 | 280.5 | 233.1 | 172.3 | 126.4 | 99.8 | 55.7 | 40.4 | 32.1 | 26.9 | 18.9 | 15.4 | 7.96 |
| 1.67V/cell | 369.4 | 293.8 | 240.1 | 175.5 | 128.1 | 101.2 | 56.4 | 41.0 | 32.5 | 27.1 | 19.0 | 15.5 | 8.02 |
| 1.60V/cell | 393.1 | 305.3 | 247.9 | 180.2 | 130.5 | 103.0 | 57.2 | 41.5 | 32.9 | 27.4 | 19.2 | 15.6 | 8.08 |

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

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.85V/cell | 509.7 | 440.8 | 381.8 | 296.1 | 224.4 | 179.7 | 102.0 | 74.1 | 59.6 | 49.9 | 36.2 | 29.5 | 15.6 |
| 1.80V/cell | 560.4 | 473.0 | 404.7 | 311.0 | 233.9 | 187.0 | 105.9 | 77.0 | 61.9 | 51.8 | 37.2 | 30.4 | 15.9 |
| 1.75V/cell | 597.7 | 497.6 | 423.9 | 320.0 | 240.6 | 191.8 | 108.0 | 78.8 | 63.3 | 53.0 | 37.6 | 30.8 | 16.0 |
| 1.70V/cell | 632.4 | 518.2 | 436.0 | 327.8 | 245.2 | 194.5 | 109.6 | 79.9 | 64.0 | 53.6 | 37.7 | 30.9 | 16.1 |
| 1.67V/cell | 665.6 | 537.3 | 445.7 | 332.5 | 247.3 | 196.5 | 110.6 | 80.8 | 64.5 | 54.0 | 37.9 | 31.1 | 16.2 |
| 1.60V/cell | 696.6 | 550.1 | 455.0 | 338.1 | 250.0 | 198.2 | 111.3 | 81.3 | 64.9 | 54.2 | 38.0 | 31.2 | 16.2 |



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Applications

- Telecommunication
- Railway signal
- Alarm and security system
- Power station systems
- Emergency power supply

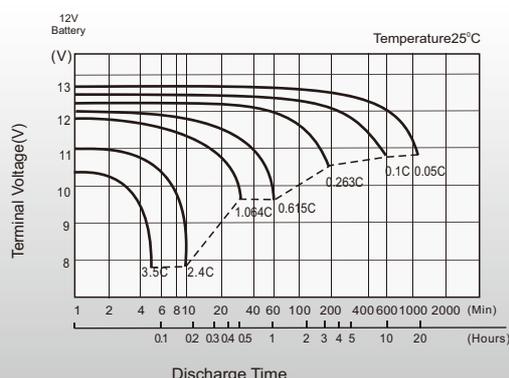
General Features

- 20 years design life(25°C)
- Premium ABS+PC jar & covers, Flame Retardant to UL94 V-0
- High-rate performance, high energy density
- High quality AGM separators minimize electrical resistance to allow high current discharging properties

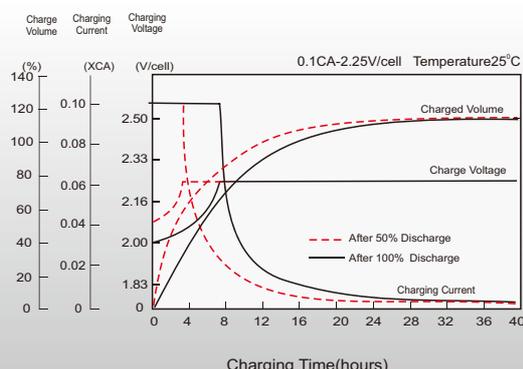
Standards

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE, UL Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

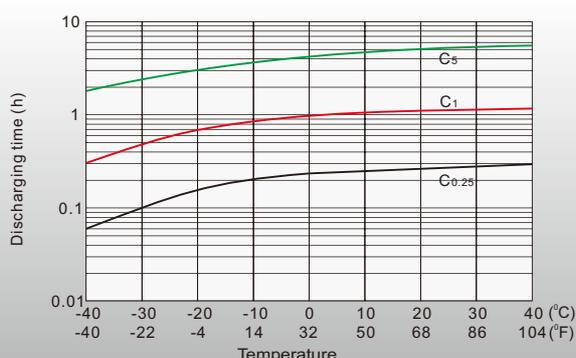
Discharge Characteristics



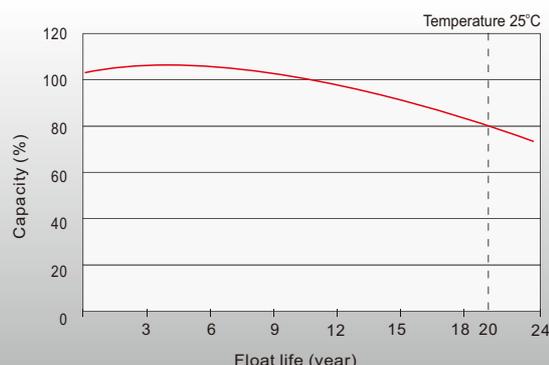
Float Charging Characteristics



Effects of Temperature on Discharging Time



Float Life



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Publication No.: LB-PLH150FT(A)-PD-EN-V3.8-202212