



LP Series-General Purpose LP12-8.0(12V8.0Ah)

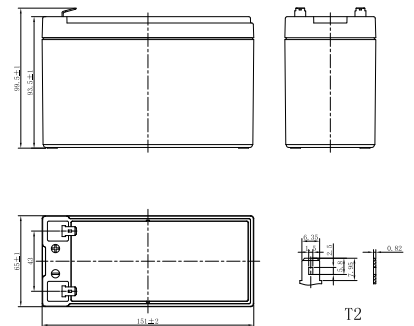


Specifications

| | | |
|-------------------------------|---|--------------------------------|
| Rated Voltage | 12V | |
| Nominal Capacity | 8.0Ah | (C ₂₀ , 1.75V/cell) |
| Dimension | Length | 151±2mm (5.95 inches) |
| | Width | 65±1mm (2.56 inches) |
| | Container Height | 93.5±1mm (3.68 inches) |
| | Total Height | 99.5±1mm (3.92 inches) |
| Approx Weight | 2.50 Kg (5.51 lbs) | |
| Terminal | T1/T2 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 8.00 Ah | (20hr, 0.400A, 1.75V/cell) |
| | 7.57 Ah | (10hr, 0.757A, 1.75V/cell) |
| | 7.00 Ah | (5hr, 1.40A, 1.75V/cell) |
| | 6.54 Ah | (3hr, 2.18A, 1.75V/cell) |
| | 5.95 Ah | (1hr, 5.95A, 1.60V/cell) |
| Max. Discharge Current | 120A (5s) | |
| Internal Resistance (25°C) | Approx 20mΩ | |
| 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 2.40A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C | |
| | Initial Charging Current less than 2.40A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C | |
| Effect of temp. to Capacity | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | LP 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 | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 29.4 | 20.2 | 15.4 | 12.5 | 9.19 | 6.64 | 5.38 | 3.88 | 2.99 | 2.11 | 1.64 | 1.37 | 1.15 | 0.904 | 0.739 | 0.391 |
| 1.80V/cell | 31.6 | 21.4 | 16.2 | 13.0 | 9.47 | 6.82 | 5.51 | 3.96 | 3.05 | 2.15 | 1.67 | 1.39 | 1.17 | 0.917 | 0.749 | 0.396 |
| 1.75V/cell | 33.3 | 22.2 | 16.7 | 13.3 | 9.72 | 6.97 | 5.63 | 4.03 | 3.11 | 2.18 | 1.69 | 1.40 | 1.18 | 0.927 | 0.757 | 0.400 |
| 1.70V/cell | 34.9 | 23.1 | 17.3 | 13.7 | 10.0 | 7.13 | 5.73 | 4.10 | 3.15 | 2.21 | 1.71 | 1.42 | 1.19 | 0.937 | 0.764 | 0.403 |
| 1.67V/cell | 36.1 | 23.8 | 17.7 | 14.0 | 10.1 | 7.24 | 5.82 | 4.15 | 3.19 | 2.23 | 1.73 | 1.43 | 1.20 | 0.944 | 0.770 | 0.406 |
| 1.60V/cell | 38.3 | 24.8 | 18.3 | 14.4 | 10.4 | 7.42 | 5.95 | 4.24 | 3.25 | 2.28 | 1.76 | 1.46 | 1.22 | 0.957 | 0.780 | 0.411 |

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

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1.85V/cell | 55.7 | 38.4 | 29.5 | 24.0 | 17.8 | 12.9 | 10.5 | 7.57 | 5.86 | 4.15 | 3.24 | 2.70 | 2.27 | 1.79 | 1.47 | 0.782 |
| 1.80V/cell | 59.3 | 40.4 | 30.8 | 24.9 | 18.2 | 13.2 | 10.7 | 7.71 | 5.96 | 4.21 | 3.28 | 2.73 | 2.30 | 1.82 | 1.49 | 0.791 |
| 1.75V/cell | 61.8 | 41.7 | 31.6 | 25.4 | 18.6 | 13.4 | 10.9 | 7.82 | 6.05 | 4.27 | 3.32 | 2.76 | 2.33 | 1.84 | 1.50 | 0.800 |
| 1.70V/cell | 64.1 | 43.1 | 32.5 | 26.0 | 19.0 | 13.7 | 11.0 | 7.94 | 6.12 | 4.32 | 3.36 | 2.80 | 2.35 | 1.85 | 1.52 | 0.807 |
| 1.67V/cell | 65.7 | 44.1 | 33.2 | 26.5 | 19.3 | 13.9 | 11.2 | 8.02 | 6.18 | 4.36 | 3.39 | 2.82 | 2.37 | 1.87 | 1.53 | 0.813 |
| 1.60V/cell | 68.4 | 45.4 | 34.1 | 27.2 | 19.7 | 14.1 | 11.4 | 8.16 | 6.28 | 4.43 | 3.44 | 2.85 | 2.40 | 1.89 | 1.54 | 0.822 |



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Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

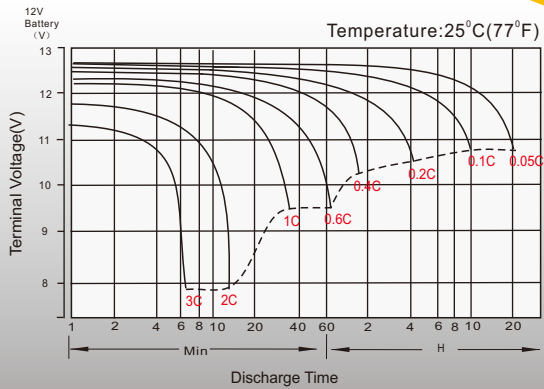
General Features

- 5 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

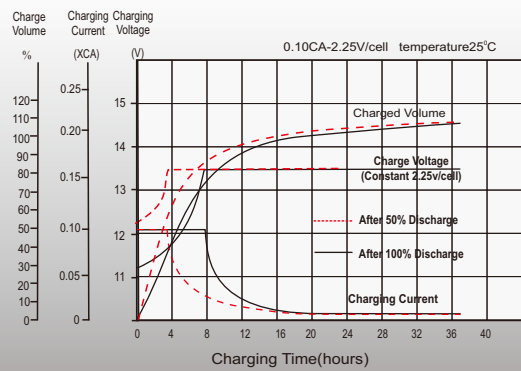
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF 16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities

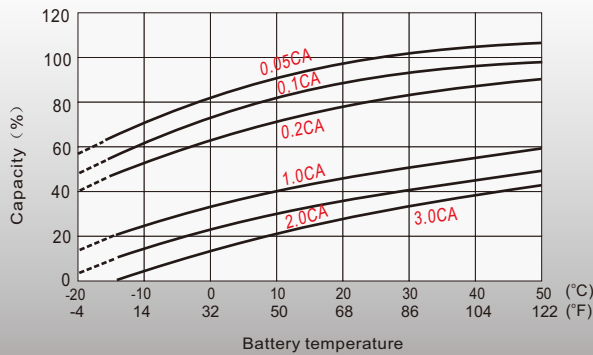
Discharge Characteristics



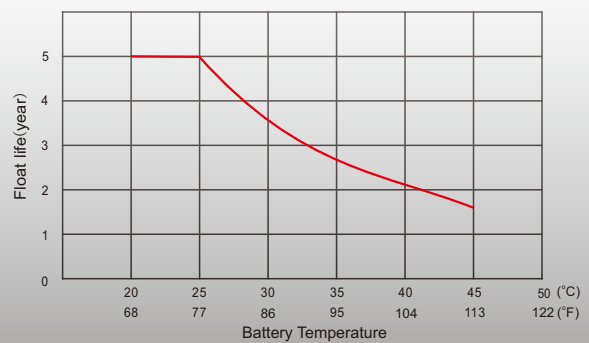
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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