



LP Series-General Purpose LP6-7.2(6V7.2Ah)

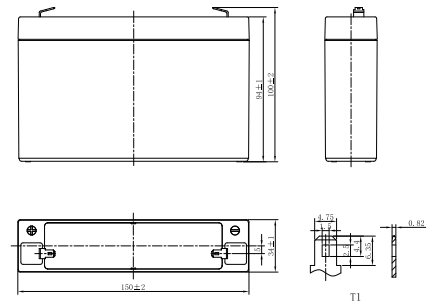


Specifications

| | | |
|-------------------------------|---|--------------------------------|
| Rated Voltage | 6V | |
| Nominal Capacity | 7.2Ah | (C ₂₀ , 1.75V/cell) |
| Dimension | Length | 151±2mm (5.94 inches) |
| | Width | 34±1mm (1.34 inches) |
| | Container Height | 94±1mm (3.70 inches) |
| | Total Height | 100±2mm (3.94 inches) |
| Approx Weight | 1.05 Kg (2.31 lbs) | |
| Terminal | T1/T2 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 7.20 Ah | (20hr, 0.360A, 1.75V/cell) |
| | 6.69 Ah | (10hr, 0.669A, 1.75V/cell) |
| | 6.20 Ah | (5hr, 1.22A, 1.75V/cell) |
| | 5.61 Ah | (3hr, 1.87A, 1.75V/cell) |
| | 4.67 Ah | (1hr, 4.67A, 1.60V/cell) |
| Max. Discharge Current | 108A (5s) | |
| Internal Resistance (25°C) | Approx 13mΩ | |
| 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 2.16A. Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C | |
| Standby Use | Initial Charging Current less than 2.16A. Voltage 6.75V~6.9V at 25°C(77°F)Temp. Coefficient -10mV/°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)

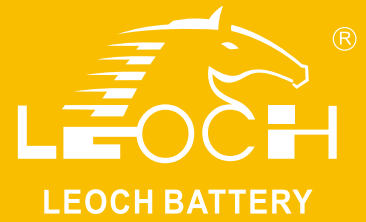
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 20.1 | 14.8 | 11.7 | 9.58 | 7.03 | 5.23 | 4.28 | 3.12 | 2.48 | 1.81 | 1.43 | 1.19 | 1.02 | 0.799 | 0.653 | 0.351 |
| 1.80V/cell | 21.8 | 15.6 | 12.2 | 9.88 | 7.21 | 5.34 | 4.35 | 3.17 | 2.52 | 1.84 | 1.45 | 1.21 | 1.03 | 0.809 | 0.660 | 0.355 |
| 1.75V/cell | 23.6 | 16.3 | 12.7 | 10.2 | 7.38 | 5.44 | 4.43 | 3.23 | 2.56 | 1.87 | 1.47 | 1.22 | 1.04 | 0.819 | 0.669 | 0.360 |
| 1.70V/cell | 25.4 | 17.1 | 13.1 | 10.5 | 7.54 | 5.54 | 4.51 | 3.28 | 2.60 | 1.89 | 1.49 | 1.24 | 1.06 | 0.829 | 0.676 | 0.362 |
| 1.67V/cell | 26.4 | 17.5 | 13.4 | 10.7 | 7.65 | 5.61 | 4.56 | 3.31 | 2.62 | 1.91 | 1.50 | 1.25 | 1.07 | 0.836 | 0.681 | 0.365 |
| 1.60V/cell | 28.8 | 18.6 | 14.0 | 11.1 | 7.88 | 5.76 | 4.67 | 3.38 | 2.68 | 1.95 | 1.53 | 1.27 | 1.08 | 0.849 | 0.692 | 0.370 |

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 | 38.2 | 28.3 | 22.6 | 18.4 | 13.6 | 10.1 | 8.32 | 6.10 | 4.86 | 3.56 | 2.82 | 2.35 | 2.01 | 1.59 | 1.30 | 0.703 |
| 1.80V/cell | 41.2 | 29.6 | 23.3 | 18.9 | 13.9 | 10.3 | 8.44 | 6.18 | 4.92 | 3.61 | 2.85 | 2.38 | 2.04 | 1.60 | 1.31 | 0.710 |
| 1.75V/cell | 44.2 | 30.9 | 24.0 | 19.4 | 14.1 | 10.5 | 8.57 | 6.26 | 4.98 | 3.65 | 2.89 | 2.40 | 2.06 | 1.62 | 1.33 | 0.717 |
| 1.70V/cell | 47.2 | 32.1 | 24.8 | 19.9 | 14.4 | 10.6 | 8.69 | 6.35 | 5.05 | 3.70 | 2.92 | 2.43 | 2.08 | 1.64 | 1.34 | 0.725 |
| 1.67V/cell | 49.0 | 32.9 | 25.2 | 20.2 | 14.6 | 10.7 | 8.76 | 6.40 | 5.09 | 3.73 | 2.94 | 2.45 | 2.10 | 1.65 | 1.35 | 0.729 |
| 1.60V/cell | 52.9 | 34.6 | 26.2 | 20.8 | 14.9 | 11.0 | 8.93 | 6.51 | 5.17 | 3.79 | 2.99 | 2.49 | 2.13 | 1.68 | 1.37 | 0.740 |



LP Series-General Purpose LP6-7.2(6V7.2Ah)



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

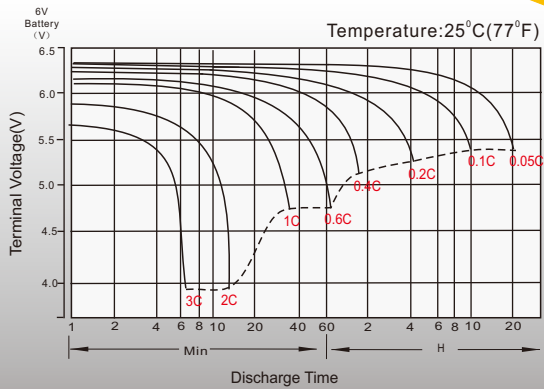
General Features

- 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

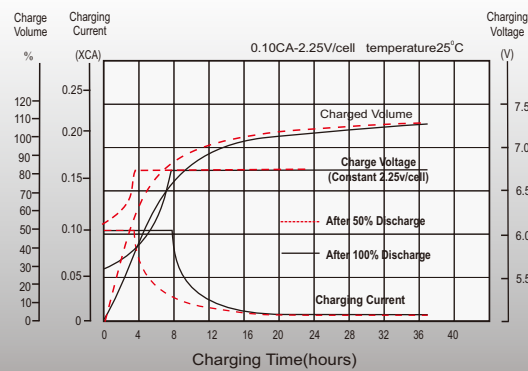
Standards

- 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

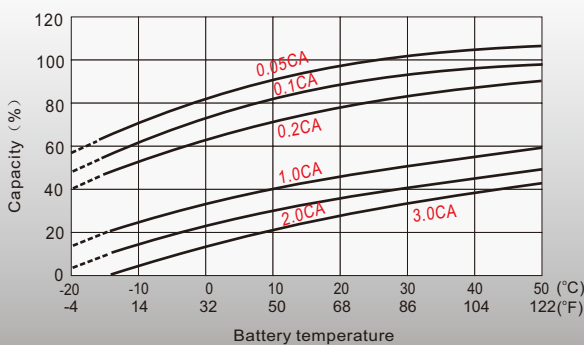
Discharge Characteristics



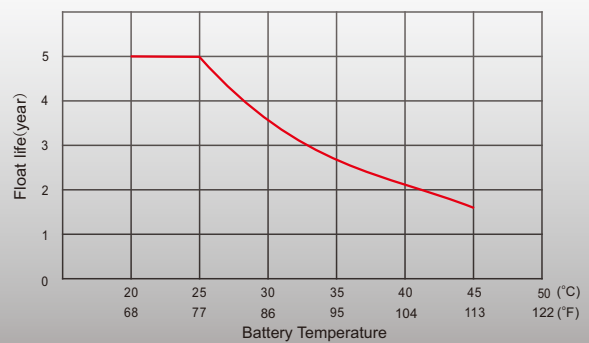
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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Publication No.: LB-LP6-7.2-PD-EN-V2.0-202004