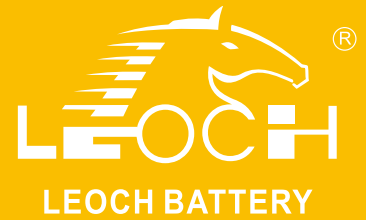




LP Series-General Purpose LP12-18(12V18Ah)



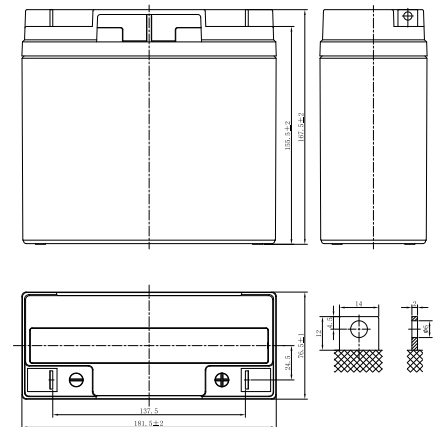
DATA SHEET FOR WWW.AUTOALL.AZ

Specifications

| | | |
|-------------------------------|---|--------------------------------|
| Rated Voltage | 12V | |
| Nominal Capacity | 18.0Ah | (C ₂₀ , 1.75V/cell) |
| Dimension | Length | 181.5±2mm (7.14 inches) |
| | Width | 76.5±1mm (3.01 inches) |
| | Container Height | 167.5±2mm (6.59 inches) |
| | Total Height | 167.5±2mm (6.59 inches) |
| Approx Weight | 5.4 Kg (11.9 lbs) | |
| Terminal | T3 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 18.0 Ah | (20hr, 0.900A, 1.75V/cell) |
| | 17.0 Ah | (10hr, 1.70A, 1.75V/cell) |
| | 15.5 Ah | (5hr, 3.10A, 1.75V/cell) |
| | 13.6 Ah | (3hr, 4.52A, 1.75V/cell) |
| | 11.2 Ah | (1hr, 11.2A, 1.60V/cell) |
| Max. Discharge Current | 270A (5s) | |
| Internal Resistance (25°C) | Approx 16mΩ | |
| Operating Temp. Range | Discharge | -15 ~ 50°C (5 ~ 122°F) |
| | Charge | 0 ~ 40°C (32 ~ 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 5.4A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C | |
| | Standby Use | |
| 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



DATA SHEET FOR WWW.AUTOALL.AZ

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

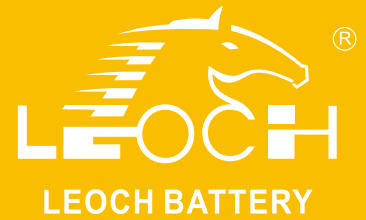
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|-----|------|------|------|------|------|------|-------|
| 1.85V/cell | 49.1 | 33.7 | 26.2 | 21.9 | 16.6 | 12.3 | 10.2 | 7.5 | 6.0 | 4.37 | 3.52 | 3.02 | 2.58 | 2.03 | 1.66 | 0.880 |
| 1.80V/cell | 52.8 | 35.7 | 27.5 | 22.7 | 17.1 | 12.6 | 10.4 | 7.7 | 6.1 | 4.44 | 3.57 | 3.06 | 2.62 | 2.06 | 1.69 | 0.890 |
| 1.75V/cell | 55.7 | 37.1 | 28.4 | 23.4 | 17.5 | 12.9 | 10.6 | 7.8 | 6.2 | 4.52 | 3.62 | 3.10 | 2.65 | 2.09 | 1.70 | 0.900 |
| 1.70V/cell | 58.3 | 38.6 | 29.4 | 24.0 | 18.0 | 13.2 | 10.8 | 8.0 | 6.3 | 4.58 | 3.67 | 3.14 | 2.68 | 2.11 | 1.72 | 0.907 |
| 1.67V/cell | 60.3 | 39.7 | 30.1 | 24.5 | 18.3 | 13.4 | 11.0 | 8.1 | 6.4 | 4.63 | 3.71 | 3.17 | 2.71 | 2.12 | 1.73 | 0.914 |
| 1.60V/cell | 64.0 | 41.4 | 31.1 | 25.3 | 18.8 | 13.7 | 11.2 | 8.2 | 6.5 | 4.71 | 3.77 | 3.22 | 2.75 | 2.15 | 1.75 | 0.924 |

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 | 93.0 | 64.1 | 50.2 | 42.1 | 32.1 | 23.8 | 19.8 | 14.7 | 11.7 | 8.59 | 6.94 | 5.95 | 5.11 | 4.03 | 3.31 | 1.76 |
| 1.80V/cell | 99.0 | 67.5 | 52.4 | 43.6 | 32.9 | 24.4 | 20.2 | 15.0 | 11.9 | 8.72 | 7.03 | 6.03 | 5.18 | 4.09 | 3.35 | 1.78 |
| 1.75V/cell | 103.2 | 69.7 | 53.8 | 44.5 | 33.6 | 24.8 | 20.5 | 15.2 | 12.1 | 8.83 | 7.12 | 6.10 | 5.23 | 4.13 | 3.38 | 1.80 |
| 1.70V/cell | 107.0 | 72.0 | 55.2 | 45.6 | 34.3 | 25.3 | 20.8 | 15.4 | 12.2 | 8.95 | 7.20 | 6.17 | 5.29 | 4.17 | 3.41 | 1.81 |
| 1.67V/cell | 109.8 | 73.6 | 56.4 | 46.4 | 34.8 | 25.6 | 21.1 | 15.6 | 12.4 | 9.02 | 7.26 | 6.22 | 5.33 | 4.20 | 3.43 | 1.83 |
| 1.60V/cell | 114.2 | 75.8 | 57.9 | 47.6 | 35.6 | 26.1 | 21.5 | 15.9 | 12.6 | 9.17 | 7.37 | 6.30 | 5.40 | 4.25 | 3.47 | 1.85 |



LP Series-General Purpose LP12-18(12V18Ah)



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

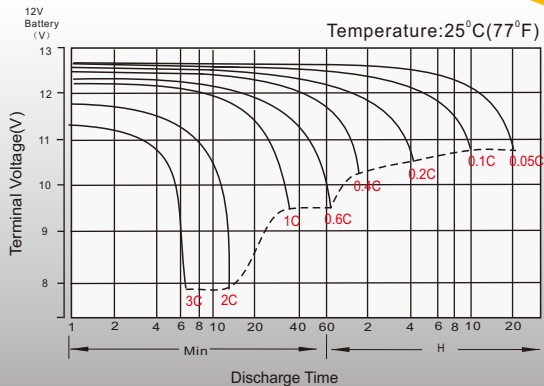
General Features

- 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

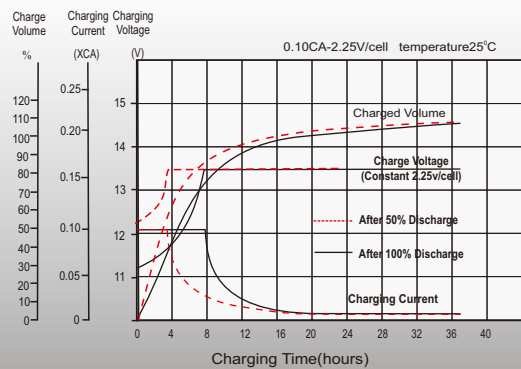
Standards

- 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

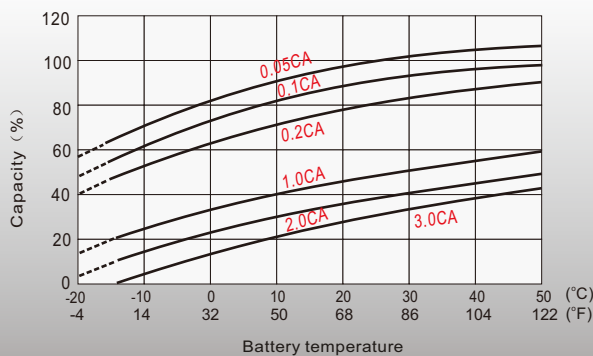
Discharge Characteristics



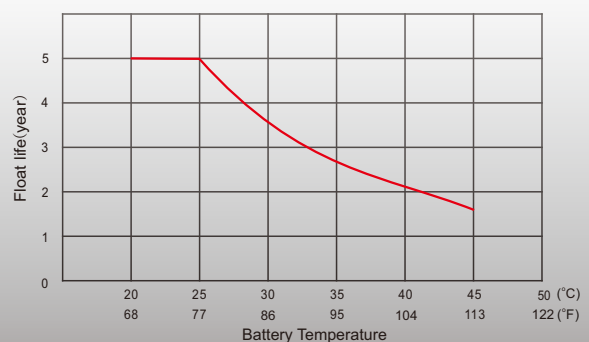
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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