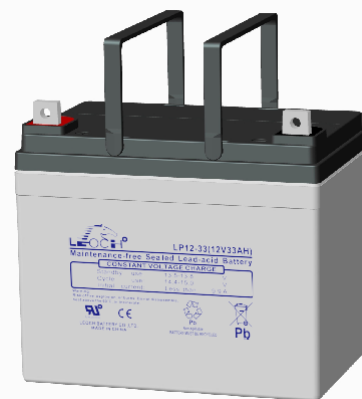


EUROTECH BATTERY

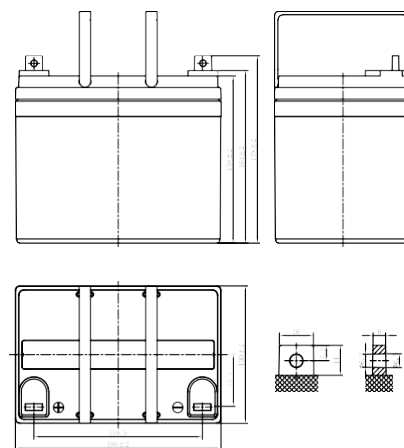
DATA SHEET FOR WWW.AUTOALL.AZ

Specifications **EB12-33**

| | | |
|-------------------------------|---|--------------------------------|
| Rated Voltage | 12V | |
| Nominal Capacity | 33.0Ah | (C ₂₀ , 1.75V/cell) |
| Dimension | Length | 195±2mm (7.68 inches) |
| | Width | 130±2mm (5.12 inches) |
| | Container Height | 164±2mm (6.46 inches) |
| | Total Height | 178±2mm (7.01 inches) |
| Approx Weight | 10.5 Kg (23.2 lbs) | |
| Terminal | T5 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 33.0 Ah | (20hr, 1.65A, 1.75V/cell) |
| | 31.2 Ah | (10hr, 3.12A, 1.75V/cell) |
| | 28.4 Ah | (5hr, 5.68A, 1.75V/cell) |
| | 25.3 Ah | (3hr, 8.42A, 1.75V/cell) |
| | 21.0 Ah | (1hr, 21.0A, 1.60V/cell) |
| Max. Discharge Current | 495A (5s) | |
| Internal Resistance (25°C) | Approx 12mΩ | |
| 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 9.9A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C | |
| | Standby Use | |
| Effect of temp. to Capacity | Initial Charging Current less than 9.9A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C | |
| | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| Self Discharge | 0°C (32°F) | 86% |
| | 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 | 92.4 | 63.5 | 49.8 | 41.0 | 30.8 | 22.9 | 19.0 | 14.2 | 11.3 | 8.15 | 6.50 | 5.53 | 4.73 | 3.73 | 3.05 | 1.61 |
| 1.80V/cell | 99.3 | 67.3 | 52.2 | 42.7 | 31.7 | 23.5 | 19.5 | 14.5 | 11.5 | 8.29 | 6.59 | 5.61 | 4.81 | 3.78 | 3.09 | 1.63 |
| 1.75V/cell | 104.6 | 70.0 | 54.0 | 43.8 | 32.6 | 24.0 | 19.9 | 14.7 | 11.7 | 8.42 | 6.68 | 5.68 | 4.86 | 3.82 | 3.12 | 1.65 |
| 1.70V/cell | 109.6 | 72.9 | 55.8 | 45.1 | 33.4 | 24.5 | 20.3 | 15.0 | 11.9 | 8.54 | 6.77 | 5.76 | 4.92 | 3.86 | 3.15 | 1.66 |
| 1.67V/cell | 113.4 | 74.9 | 57.1 | 46.1 | 34.0 | 24.9 | 20.6 | 15.2 | 12.0 | 8.62 | 6.84 | 5.81 | 4.97 | 3.90 | 3.18 | 1.68 |
| 1.60V/cell | 120.3 | 78.1 | 59.1 | 47.4 | 34.9 | 25.5 | 21.0 | 15.5 | 12.3 | 8.78 | 6.96 | 5.90 | 5.04 | 3.95 | 3.22 | 1.69 |

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 | 174.7 | 120.9 | 95.3 | 79.0 | 59.5 | 44.4 | 37.0 | 27.6 | 22.1 | 16.0 | 12.8 | 10.9 | 9.37 | 7.39 | 6.06 | 3.23 |
| 1.80V/cell | 186.1 | 127.3 | 99.4 | 81.7 | 61.1 | 45.4 | 37.8 | 28.1 | 22.5 | 16.3 | 13.0 | 11.1 | 9.50 | 7.49 | 6.14 | 3.26 |
| 1.75V/cell | 193.9 | 131.5 | 102.1 | 83.6 | 62.4 | 46.2 | 38.4 | 28.6 | 22.8 | 16.5 | 13.1 | 11.2 | 9.60 | 7.57 | 6.19 | 3.30 |
| 1.70V/cell | 201.1 | 135.8 | 104.8 | 85.5 | 63.7 | 47.1 | 39.0 | 29.0 | 23.1 | 16.7 | 13.3 | 11.3 | 9.70 | 7.64 | 6.25 | 3.33 |
| 1.67V/cell | 206.4 | 138.8 | 107.1 | 87.1 | 64.7 | 47.7 | 39.5 | 29.3 | 23.3 | 16.8 | 13.4 | 11.4 | 9.78 | 7.70 | 6.29 | 3.35 |
| 1.60V/cell | 214.7 | 142.9 | 110.0 | 89.2 | 66.1 | 48.6 | 40.2 | 29.8 | 23.7 | 17.1 | 13.6 | 11.6 | 9.89 | 7.80 | 6.37 | 3.39 |

Applications

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

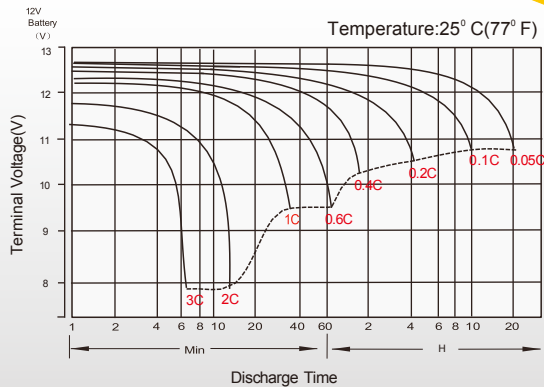
General Features

- 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

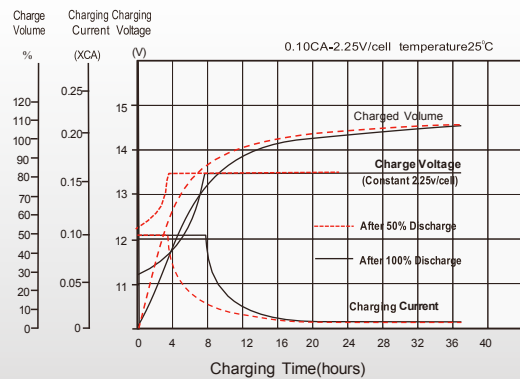
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF16949, ISO45001,ISO 9001 and ISO 14001 certified production facilities

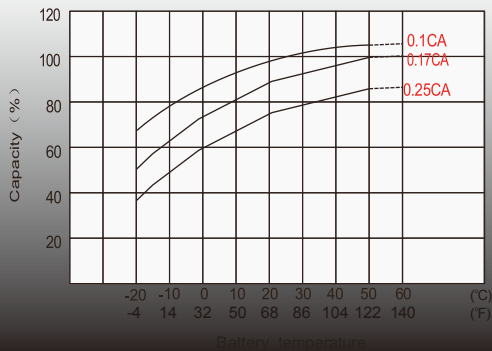
Discharge Characteristics



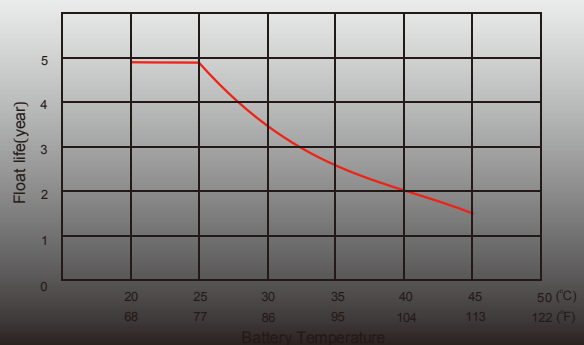
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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