

Specification

| | | |
|----------------------------------|---|-------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity(10HR) | 180.0AH | |
| Dimensions | Length | 532±3mm (20.9 inches) |
| | Width | 207±3mm (8.15 inches) |
| | Container Height | 214±3mm (8.42 inches) |
| | Total Height (with Terminal) | 220±3mm (8.66 inches) |
| Approx Weight | Approx 52.8 kg (116.4lbs) | |
| Terminal | T11 | |
| Container Material | ABS | |
| Rated Capacity | 187.2 AH/9.36A | (20hr, 1.80V/cell, 25°C/77°F) |
| | 180.0 AH/18.0A | (10hr, 1.80V/cell, 25°C/77°F) |
| | 155 AH/31.0A | (5hr, 1.75V/cell, 25°C/77°F) |
| | 140.4 AH/46.8A | (3hr, 1.75V/cell, 25°C/77°F) |
| | 109.8 AH/109.8A | (1hr, 1.60V/cell, 25°C/77°F) |
| Max. Discharge Current | 1800A (5s) | |
| Internal Resistance | Approx 3.0mΩ | |
| 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 54.0A. Voltage | |
| | 14.4V~15.0V at 25°C(77°F) Temp. Coefficient -30mV/°C | |
| Standby Use | No limit on Initial Charging Current Voltage | |
| | 13.5V~13.8V at 25°C(77°F) Temp. Coefficient -20mV/°C | |
| Capacity affected by Temperature | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | Leoch 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. | |



Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system

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

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 242.2 | 206.0 | 172.3 | 136.9 | 103.6 | 84.9 | 54.1 | 42.7 | 34.9 | 28.1 | 24.5 | 19.9 | 17.0 | 9.27 |
| 1.80V/cell | 309.5 | 248.9 | 203.7 | 161.6 | 120.5 | 95.1 | 59.0 | 46.0 | 37.3 | 30.2 | 26.3 | 21.1 | 18.0 | 9.36 |
| 1.75V/cell | 340.1 | 271.8 | 219.1 | 167.7 | 125.1 | 99.5 | 61.2 | 46.8 | 38.1 | 31.0 | 27.0 | 21.5 | 18.2 | 9.45 |
| 1.70V/cell | 370.6 | 290.2 | 230.2 | 174.6 | 130.1 | 102.6 | 63.6 | 48.2 | 39.1 | 31.8 | 27.6 | 21.8 | 18.4 | 9.63 |
| 1.65V/cell | 400.0 | 308.6 | 244.6 | 184.2 | 133.3 | 106.0 | 65.4 | 50.2 | 40.5 | 32.7 | 28.2 | 22.1 | 18.7 | 9.76 |
| 1.60V/cell | 434.3 | 330.0 | 260.6 | 194.4 | 139.0 | 109.8 | 67.6 | 51.7 | 41.7 | 33.8 | 28.8 | 22.3 | 18.9 | 9.81 |

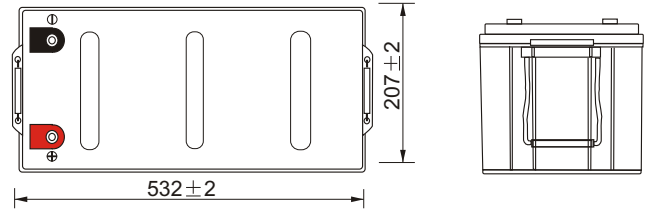
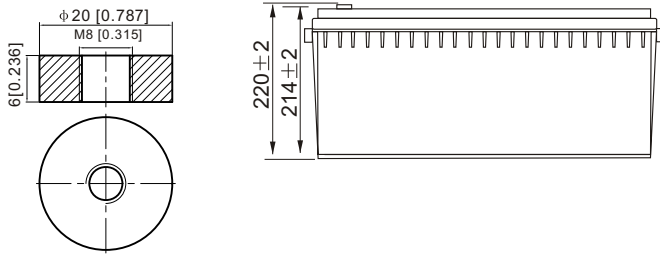
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 447.4 | 384.3 | 324.7 | 261.0 | 199.2 | 163.7 | 105.0 | 83.3 | 68.2 | 55.2 | 48.2 | 39.3 | 33.6 | 18.4 |
| 1.80V/cell | 564.9 | 458.1 | 378.2 | 303.2 | 229.9 | 182.4 | 113.8 | 89.1 | 72.5 | 59.0 | 51.5 | 41.5 | 35.6 | 18.5 |
| 1.75V/cell | 610.8 | 494.3 | 403.0 | 312.2 | 236.3 | 189.9 | 117.6 | 90.4 | 73.8 | 60.3 | 52.7 | 42.1 | 35.9 | 18.7 |
| 1.70V/cell | 650.7 | 520.4 | 420.3 | 323.2 | 244.8 | 195.3 | 122.0 | 92.8 | 75.7 | 61.7 | 53.7 | 42.7 | 36.2 | 19.0 |
| 1.65V/cell | 695.8 | 549.0 | 443.2 | 338.1 | 248.7 | 200.4 | 124.7 | 96.3 | 78.0 | 63.2 | 54.7 | 43.3 | 36.9 | 19.2 |
| 1.60V/cell | 738.1 | 577.5 | 467.0 | 354.5 | 257.8 | 206.4 | 128.2 | 98.8 | 80.2 | 65.1 | 55.8 | 43.6 | 37.2 | 19.3 |

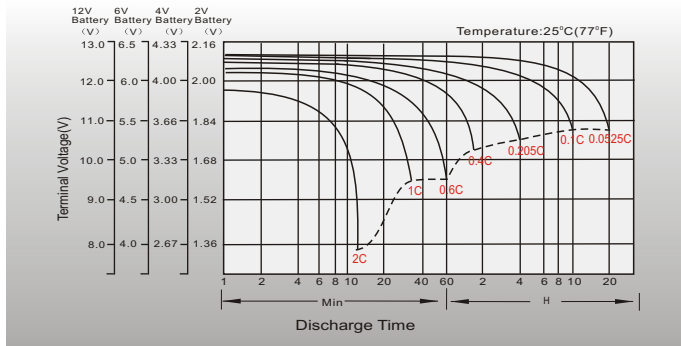
Dimensions

T11 Terminal

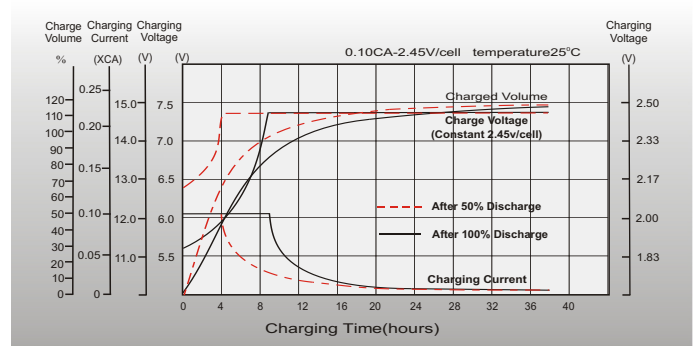
Unit: mm [inches]



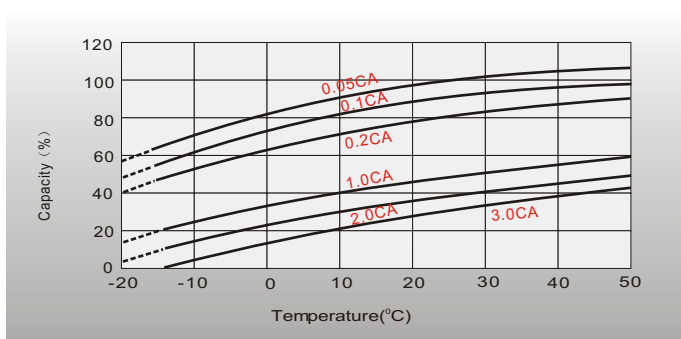
Discharge Characteristics



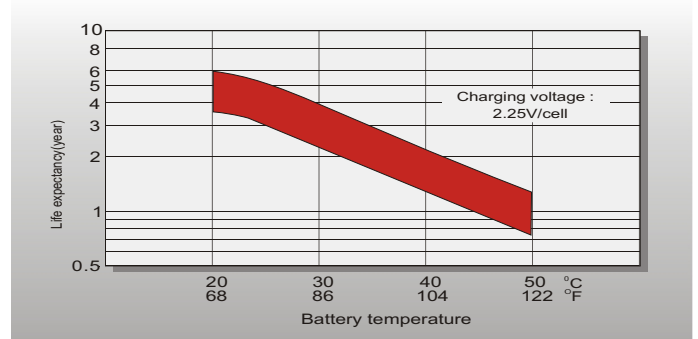
Charging Characteristics (cycle use)



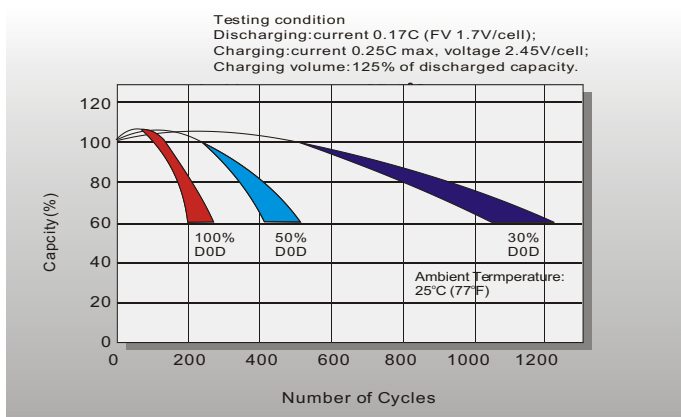
Temperature Effects in Relation to Batter Capacity



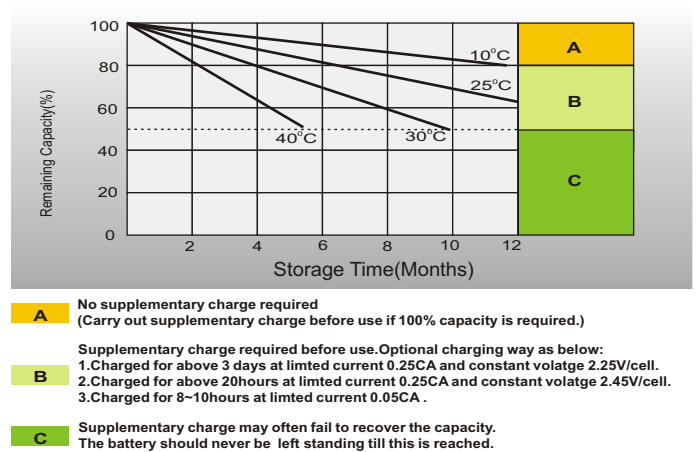
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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