



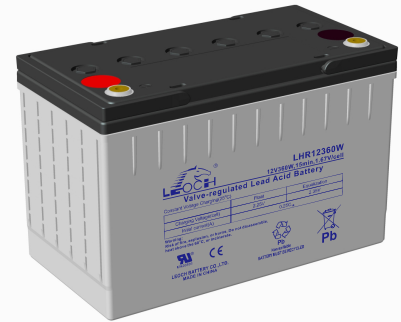
LHR Series-High Rate

LHR12360W(12V360W)

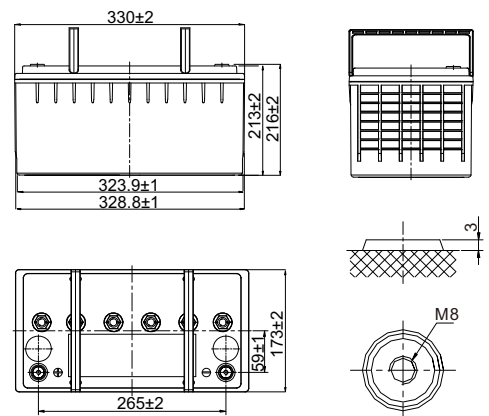


Specifications

| | | | |
|------------------------------------------|-------------------------------|-------------------------|--------------|
| Rated Voltage | 12V | | |
| Nominal Rate($W_{15}, 1.67V/cell$) | 360W/cell | | |
| Nominal Capacity($C_{10}, 1.80V/cell$) | 100Ah | | |
| Dimension | Length | 330±2mm (13.0 inches) | |
| | Width | 173±2mm (6.81 inches) | |
| | Container Height | 213±2mm (8.39 inches) | |
| | Total Height | 216±2mm (8.50 inches) | |
| Approx Weight | 29.4kg (64.8 lbs) | | |
| Terminal | M8 | | |
| Container Material | ABS: UL 94 HB or V-0 optional | | |
| Rated Capacity(25°C) | 100.0 Ah | C10(10.0A, 1.80V/cell) | |
| | 96.0 Ah | C8(12.0A, 1.80V/cell) | |
| | 89.0 Ah | C5(17.8A, 1.75V/cell) | |
| | 77.1 Ah | C3(25.7A, 1.75V/cell) | |
| | 66.0 Ah | C1(66.0A, 1.60V/cell) | |
| Max. Discharge Current | 1000A (5s) | | |
| Internal Resistance(25°C) | Approx 3.5mΩ | | |
| Operating Temp. Range | Discharge | -20 ~ 55°C (-4 ~ 131°F) | |
| | Charge | -20 ~ 40°C (-4 ~ 104°F) | |
| | Storage | -15 ~ 50°C (5 ~ 122°F) | |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | | |
| Max.Charging Current(25°C) | 25.0A | | |
| Charge voltage(25°C) | Float | 2.25 ~ 2.30V/cell | -3mV/cell/°C |
| | Equalization | 2.30~2.40V/cell | -4mV/cell/°C |
| Effect of temp. to Capacity | 40°C (104°F) | 106% | |
| | 25°C (77°F) | 100% | |
| | 0°C (32°F) | 86% | |
| Self Discharge | ≤3%/month @ 25°C | | |



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 | 8h | 10h |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 278.5 | 206.5 | 164.2 | 116.7 | 87.6 | 65.5 | 52.8 | 37.3 | 31.5 | 23.8 | 19.4 | 16.6 | 11.7 | 9.76 |
| 1.80V/cell | 310.4 | 230.1 | 183.0 | 126.3 | 94.4 | 69.6 | 55.9 | 39.5 | 33.2 | 24.8 | 20.3 | 17.2 | 12.0 | 10.0 |
| 1.75V/cell | 323.9 | 240.1 | 191.0 | 138.6 | 102.2 | 74.0 | 59.3 | 41.8 | 34.7 | 25.7 | 21.1 | 17.8 | 12.2 | 10.1 |
| 1.70V/cell | 328.0 | 243.1 | 193.4 | 148.2 | 107.2 | 78.4 | 62.0 | 43.7 | 36.0 | 26.5 | 21.6 | 18.1 | 12.4 | 10.2 |
| 1.67V/cell | 333.0 | 246.8 | 196.4 | 156.3 | 112.0 | 80.9 | 64.2 | 45.2 | 37.1 | 27.3 | 22.1 | 18.4 | 12.6 | 10.3 |
| 1.60V/cell | 338.1 | 250.6 | 199.3 | 162.3 | 116.0 | 83.2 | 66.0 | 46.3 | 37.7 | 27.8 | 22.4 | 18.7 | 12.7 | 10.5 |

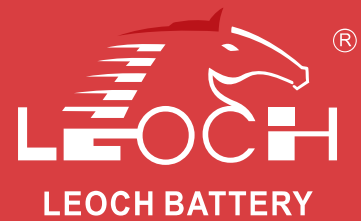
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 8h | 10h |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.85V/cell | 456.0 | 378.5 | 301.1 | 227.4 | 172.5 | 130.1 | 105.6 | 76.0 | 63.3 | 48.0 | 39.3 | 33.7 | 23.9 | 20.0 |
| 1.80V/cell | 515.4 | 421.8 | 335.6 | 243.9 | 184.9 | 137.6 | 111.3 | 79.9 | 66.5 | 49.9 | 41.0 | 34.9 | 24.5 | 20.5 |
| 1.75V/cell | 555.5 | 440.2 | 350.2 | 264.9 | 198.6 | 145.5 | 117.6 | 84.4 | 69.3 | 51.6 | 42.5 | 36.0 | 24.9 | 20.6 |
| 1.70V/cell | 590.3 | 445.7 | 354.5 | 280.4 | 206.6 | 153.3 | 122.3 | 87.7 | 71.5 | 53.1 | 43.3 | 36.4 | 25.2 | 20.8 |
| 1.67V/cell | 612.0 | 452.5 | 360.0 | 292.3 | 214.0 | 157.1 | 125.7 | 90.1 | 73.4 | 54.5 | 44.2 | 37.0 | 25.5 | 20.9 |
| 1.60V/cell | 620.8 | 459.4 | 365.5 | 299.0 | 219.0 | 159.7 | 128.2 | 91.7 | 73.9 | 55.0 | 44.6 | 37.4 | 25.6 | 21.2 |



LHR Series-High Rate

LHR12360W(12V360W)



Applications

- UPS
- Hospitals & Testing Laboratories
- Emergency Power Supply
- Banks & Financial Markets
- Industrial Process Control Facilities
- Data & Network Operation Centers

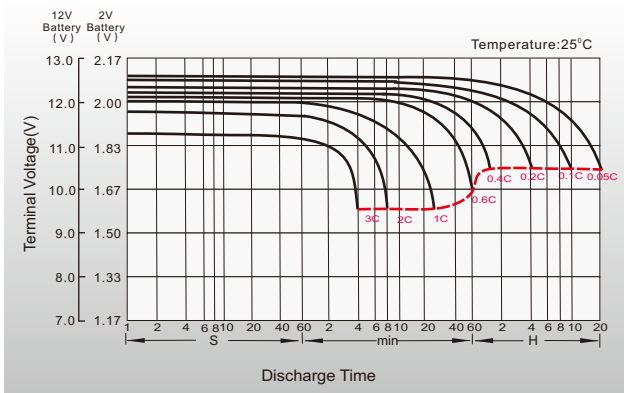
General Features

- High quality AGM separator: extend cycle life and prevent micro short circuit
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- Unique vent valve design: reduce water losing and prevent air/spark going inside

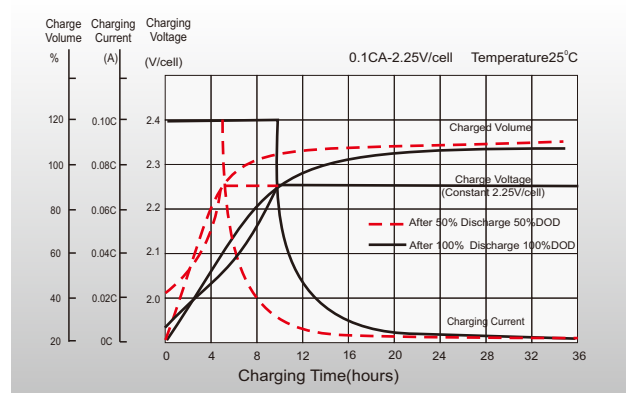
Standards

- Compliance with IEC 60896 and YD/T 3427 standards
- CE, UL, TLC Certified
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

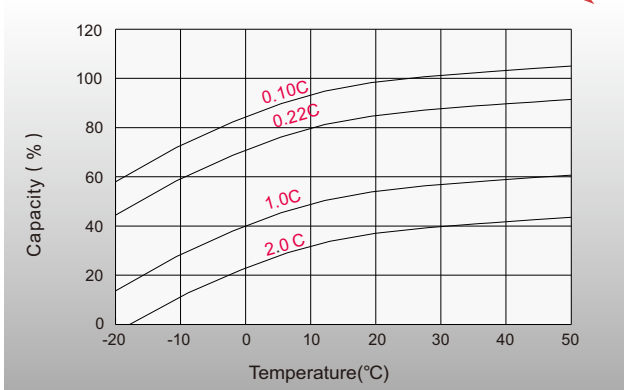
Discharge Characteristics



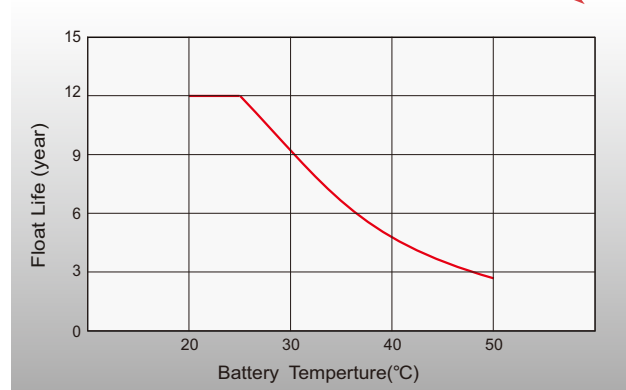
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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