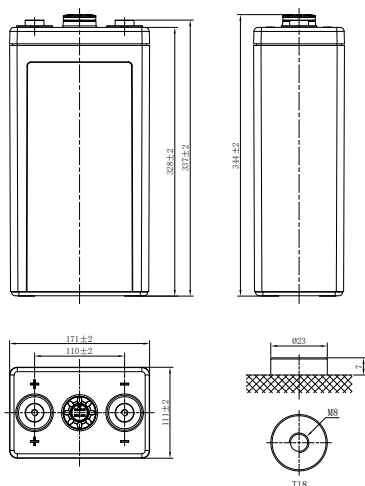


LHR SERIES-HIGH RATE

LHR750W (2V750W)



CHARACTERISTICS

| Item | Specifications | |
|-------------------------------|-------------------------------|-------------------------------|
| Rated Voltage | 2V | |
| Nominal Rate (25°C) | $W_{15}, 1.67V/cell$ | 750W/cell |
| Nominal Capacity (25°C) | $C_{10}, 1.80V/cell$ | 250Ah |
| Dimension | Length | 171mm (6.73inches) |
| | Width | 111mm (4.37inches) |
| | Container Height | 328mm (12.9inches) |
| | Total Height | 344mm (13.5inches) |
| Approx Weight | 15kg (33.1lbs) | |
| Terminal | T18(M8) | |
| Container Material | ABS (UL94 HB or V-0 optional) | |
| Short-circuit current | 3000A | |
| Internal Resistance (25°C) | Approx 0.7 mΩ (Fully charged) | |
| 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) | 0.25C | |
| Charge voltage (25°C) | Standby Use | Equalization Use |
| | 2.25-2.30V/cell | 2.30-2.40V/cell |
| Temp. Coefficient | -3mV/cell/°C | |
| | 40°C (104°F) | 106% |
| Effect of temp. to Capacity | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| | Self Discharge | ≤ 3% per month at 25°C (77°F) |

DISCHARGE TABLE

| 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 | 346.1 | 320.5 | 284.4 | 233.0 | 182.9 | 153.1 | 132.0 | 98.8 | 77.8 | 60.7 | 48.2 | 42.2 | 28.4 | 24.4 |
| 1.80V/cell | 389.8 | 360.9 | 316.6 | 254.6 | 190.6 | 161.3 | 137.5 | 103.1 | 81.3 | 62.6 | 49.2 | 43.1 | 29.4 | 25.0 |
| 1.75V/cell | 400.0 | 379.9 | 333.5 | 269.9 | 200.7 | 166.9 | 138.9 | 106.3 | 83.1 | 63.9 | 50.1 | 44.1 | 29.7 | 25.3 |
| 1.70V/cell | 442.1 | 399.8 | 350.7 | 284.2 | 210.6 | 173.0 | 144.4 | 109.4 | 85.4 | 66.5 | 51.3 | 44.6 | 30.1 | 25.6 |
| 1.67V/cell | 503.3 | 427.1 | 369.4 | 295.5 | 217.9 | 177.2 | 147.1 | 112.5 | 87.1 | 67.8 | 52.9 | 45.6 | 30.5 | 25.9 |
| 1.60V/cell | 510.3 | 433.1 | 374.5 | 299.6 | 220.9 | 181.5 | 149.9 | 115.6 | 89.5 | 69.0 | 53.8 | 46.6 | 30.8 | 26.3 |

| 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 | 650.7 | 602.7 | 577.4 | 438.1 | 343.8 | 293.9 | 253.4 | 194.5 | 153.1 | 119.6 | 94.9 | 83.1 | 56.9 | 48.8 |
| 1.80V/cell | 732.7 | 678.6 | 642.9 | 478.8 | 358.3 | 309.6 | 264.0 | 203.1 | 160.1 | 123.3 | 96.8 | 84.9 | 58.8 | 50.0 |
| 1.75V/cell | 752.0 | 714.4 | 677.2 | 507.5 | 377.3 | 320.5 | 266.7 | 209.4 | 163.6 | 125.9 | 98.6 | 86.9 | 59.5 | 50.6 |
| 1.70V/cell | 831.3 | 751.5 | 712.2 | 534.2 | 395.8 | 332.1 | 277.2 | 215.5 | 168.2 | 130.9 | 101.0 | 88.0 | 60.3 | 51.3 |
| 1.67V/cell | 946.2 | 803.0 | 750.0 | 555.6 | 409.6 | 340.3 | 282.5 | 221.7 | 171.7 | 133.4 | 104.1 | 89.8 | 61.0 | 51.9 |
| 1.60V/cell | 959.4 | 814.3 | 760.5 | 563.3 | 415.4 | 348.4 | 287.8 | 227.8 | 176.4 | 135.9 | 105.9 | 91.7 | 61.7 | 52.5 |

LHR SERIES-HIGH RATE

LHR750W (2V750W)



APPLICATIONS

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

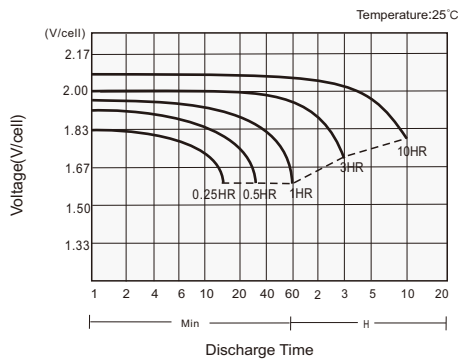
GENERAL FEATURES

- 16 years design life (25°C)
- Excellent high current performance - optimised for short discharge time
- Advanced AGM technology for superior high-rate power
- Long Life Alloy - minimizing grid growth, reducing gassing and extending battery life
- Epoxy-sealed posts eliminate leaks
- Optimal energy density - saves floor space

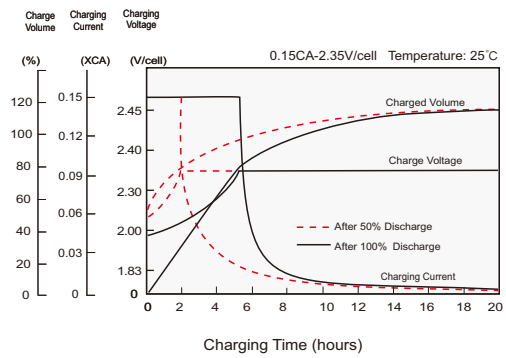
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE, UL Approved
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

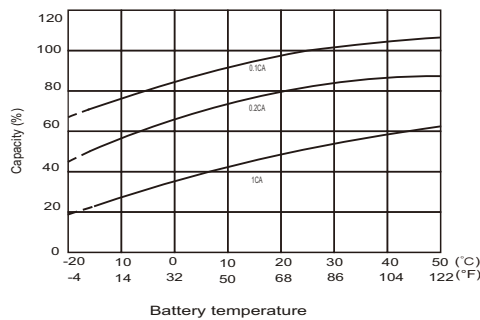
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

