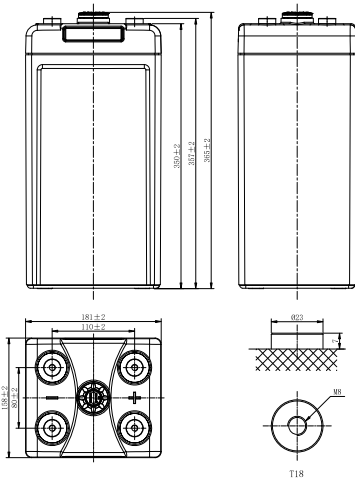


LHR SERIES-HIGH RATE

LHR1200W (2V1200W)



CHARACTERISTICS

| Item | Specifications | |
|-------------------------------|--------------------------------|-------------------------------|
| Rated Voltage | 2V | |
| Nominal Rate (25°C) | W_{15} , 1.67V/cell | 1200W/cell |
| Nominal Capacity (25°C) | C_{10} , 1.80V/cell | 400Ah |
| Dimension | Length | 158mm (6.22inches) |
| | Width | 181mm (7.13inches) |
| | Container Height | 350mm (13.8inches) |
| | Total Height | 365mm (14.4inches) |
| Approx Weight | 24.1kg (53.1lbs) | |
| Terminal | T18(M8) | |
| Container Material | ABS (UL94 HB or V-0 optional) | |
| Short-circuit current | 4800A | |
| Internal Resistance (25°C) | Approx 0.58 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) | Float Charge | Equalization Charge |
| | 2.25-2.30V/cell | 2.30-2.40V/cell |
| Temp. Coefficient | -3mV/cell/°C | -4mV/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 | 627.9 | 550.9 | 491.4 | 402.6 | 316.0 | 244.9 | 211.2 | 158.0 | 124.4 | 97.1 | 77.1 | 67.5 | 45.5 | 39.0 |
| 1.80V/cell | 707.0 | 620.3 | 547.1 | 440.1 | 329.4 | 258.0 | 220.0 | 165.0 | 130.0 | 100.2 | 78.6 | 69.0 | 47.0 | 40.0 |
| 1.75V/cell | 725.6 | 653.0 | 576.4 | 466.4 | 346.8 | 267.0 | 222.2 | 170.0 | 132.9 | 102.2 | 80.1 | 70.6 | 47.6 | 40.5 |
| 1.70V/cell | 802.1 | 687.0 | 606.1 | 491.0 | 363.8 | 276.8 | 231.0 | 175.0 | 136.6 | 106.3 | 82.1 | 71.5 | 48.2 | 41.0 |
| 1.67V/cell | 864.9 | 734.0 | 638.3 | 510.6 | 376.5 | 283.6 | 235.4 | 180.0 | 139.5 | 108.4 | 84.5 | 73.0 | 48.8 | 41.5 |
| 1.60V/cell | 877.0 | 744.3 | 647.2 | 517.8 | 381.8 | 290.4 | 239.8 | 185.0 | 143.2 | 110.4 | 86.0 | 74.5 | 49.3 | 42.0 |

| 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 | 1180.5 | 1035.8 | 923.9 | 756.9 | 594.1 | 470.2 | 405.5 | 311.3 | 245.0 | 191.4 | 151.9 | 133.0 | 91.0 | 78.0 |
| 1.80V/cell | 1329.2 | 1166.2 | 1028.6 | 827.3 | 619.2 | 495.4 | 422.4 | 325.1 | 256.2 | 197.4 | 154.8 | 135.9 | 94.0 | 80.0 |
| 1.75V/cell | 1364.1 | 1227.6 | 1083.6 | 876.9 | 652.0 | 512.7 | 426.6 | 334.9 | 261.7 | 201.4 | 157.8 | 139.1 | 95.2 | 81.0 |
| 1.70V/cell | 1508.0 | 1291.6 | 1139.5 | 923.1 | 684.0 | 531.4 | 443.5 | 344.8 | 269.2 | 209.5 | 161.7 | 140.8 | 96.4 | 82.0 |
| 1.67V/cell | 1626.0 | 1380.0 | 1200.0 | 960.0 | 707.9 | 544.4 | 452.0 | 354.6 | 274.7 | 213.5 | 166.5 | 143.7 | 97.6 | 83.0 |
| 1.60V/cell | 1648.8 | 1399.3 | 1216.8 | 973.4 | 717.8 | 557.5 | 460.4 | 364.5 | 282.1 | 217.5 | 169.4 | 146.7 | 98.6 | 84.0 |

LHR SERIES-HIGH RATE

LHR1200W (2V1200W)



APPLICATIONS

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

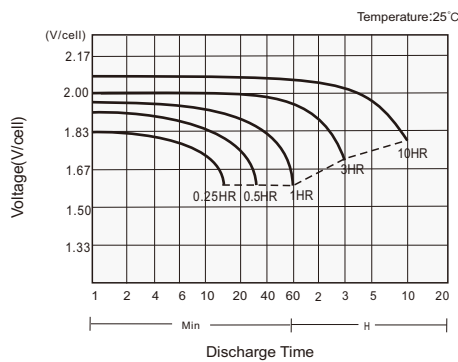
GENERAL FEATURES

- 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

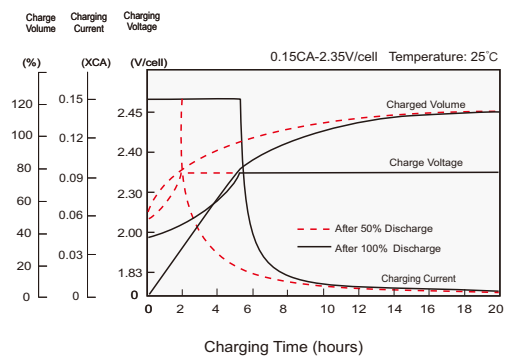
STANDARDS

- 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

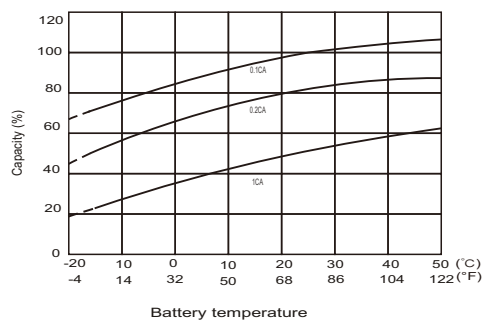
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

