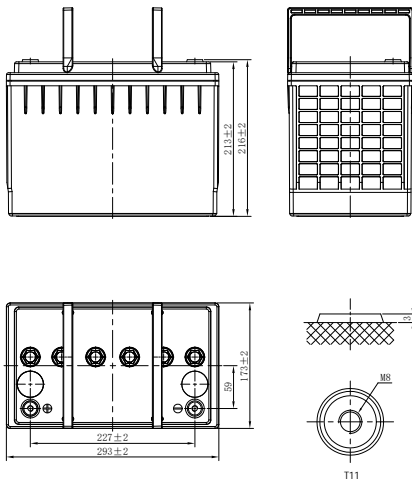


LHR SERIES-HIGH RATE

LHR12350W (12V350W)



CHARACTERISTICS

| Item | Specifications | |
|-------------------------------|-------------------------------|-------------------------------|
| Rated Voltage | 12V | |
| Nominal Rate (25°C) | $W_{15}, 1.67V/cell$ | 350W/cell |
| Nominal Capacity (25°C) | $C_{10}, 1.80V/cell$ | 85Ah |
| Dimension | Length | 293mm (11.5inches) |
| | Width | 173mm (6.81inches) |
| | Container Height | 213mm (8.39inches) |
| | Total Height | 216mm (8.50inches) |
| Approx Weight | 27.4kg (60.4lbs) | |
| Terminal | T11(M8) | |
| Container Material | ABS (UL94 HB or V-0 optional) | |
| Short-circuit current | 2125A | |
| Internal Resistance (25°C) | Approx 5 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 | 258.3 | 178.4 | 140.5 | 100.9 | 73.7 | 52.9 | 41.7 | 29.5 | 24.5 | 18.2 | 15.2 | 13.3 | 9.88 | 8.34 |
| 1.80V/cell | 291.4 | 208.3 | 165.3 | 110.2 | 79.3 | 57.2 | 45.1 | 31.8 | 26.1 | 19.4 | 16.0 | 13.8 | 10.1 | 8.50 |
| 1.75V/cell | 306.4 | 221.5 | 176.7 | 119.3 | 85.2 | 60.7 | 47.8 | 33.7 | 27.4 | 20.2 | 16.3 | 14.2 | 10.3 | 8.58 |
| 1.70V/cell | 315.2 | 230.4 | 188.0 | 133.2 | 93.8 | 65.6 | 50.9 | 35.8 | 28.3 | 20.7 | 16.8 | 14.4 | 10.5 | 8.67 |
| 1.67V/cell | 326.4 | 238.6 | 190.9 | 144.3 | 100.2 | 69.0 | 53.2 | 37.4 | 29.1 | 21.2 | 17.2 | 14.7 | 10.6 | 8.75 |
| 1.60V/cell | 346.8 | 243.8 | 193.8 | 151.2 | 101.0 | 70.0 | 53.9 | 37.9 | 29.8 | 21.6 | 17.6 | 15.0 | 10.8 | 8.84 |

| 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 | 443.3 | 368.0 | 292.7 | 196.5 | 149.4 | 112.5 | 90.9 | 67.2 | 55.3 | 42.2 | 34.7 | 29.5 | 20.9 | 17.6 |
| 1.80V/cell | 501.0 | 410.1 | 326.2 | 222.9 | 165.0 | 122.1 | 97.7 | 72.4 | 59.7 | 45.2 | 36.7 | 31.2 | 21.8 | 18.4 |
| 1.75V/cell | 540.0 | 428.0 | 340.5 | 241.0 | 175.9 | 128.8 | 102.8 | 75.6 | 62.0 | 46.6 | 37.9 | 32.2 | 22.3 | 18.6 |
| 1.70V/cell | 573.9 | 433.3 | 344.7 | 259.2 | 185.1 | 134.7 | 107.4 | 78.2 | 63.6 | 47.9 | 38.9 | 32.8 | 22.5 | 18.7 |
| 1.67V/cell | 595.0 | 440.0 | 350.0 | 276.1 | 195.7 | 140.8 | 112.1 | 81.0 | 65.4 | 49.3 | 39.9 | 33.4 | 22.8 | 18.9 |
| 1.60V/cell | 603.5 | 449.5 | 362.0 | 286.2 | 202.5 | 146.5 | 116.6 | 83.5 | 66.8 | 50.3 | 40.4 | 33.8 | 23.0 | 19.0 |

LHR SERIES-HIGH RATE

LHR12350W (12V350W)



APPLICATIONS

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

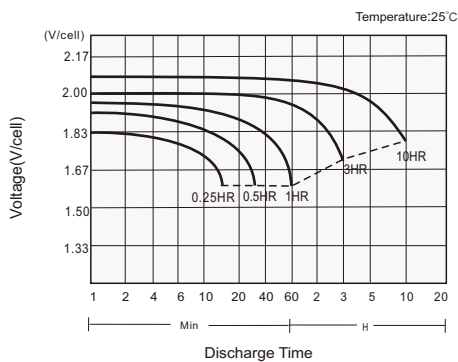
GENERAL FEATURES

- 12 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

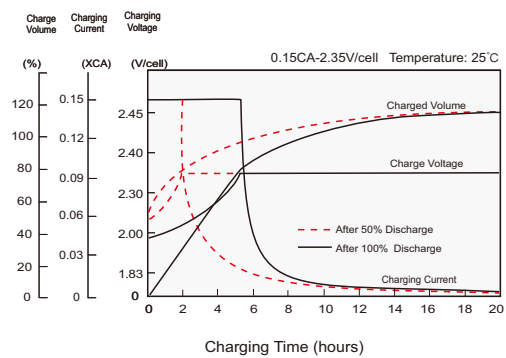
STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Long Life" according to Eurobat
- CE, UL Approved
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

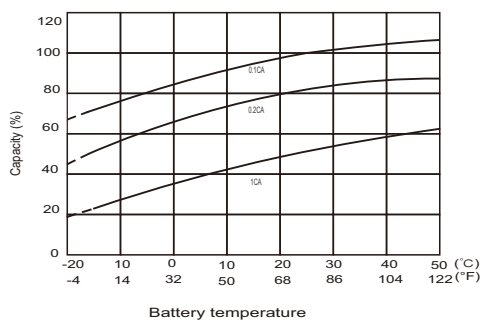
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

