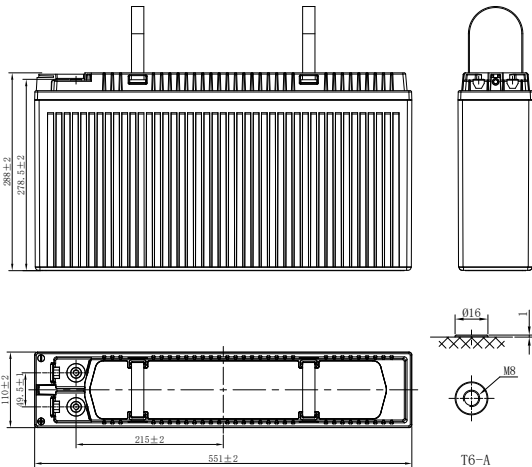
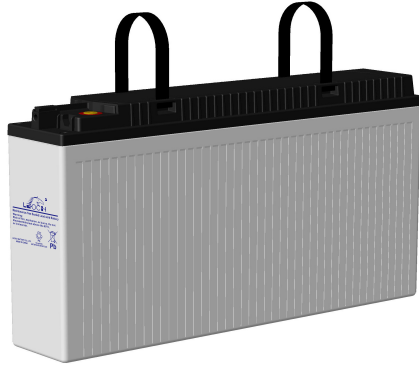


LHR SERIES-HIGH RATE

LHR12550FT (12V550W)



CHARACTERISTICS

| Item | Specifications | |
|-------------------------------|-------------------------------|---------------------|
| Rated Voltage | 12V | |
| Nominal Rate (25°C) | W ₁₅ , 1.67V/cell | 550W/cell |
| Nominal Capacity (25°C) | C ₁₀ , 1.80V/cell | 140Ah |
| Dimension | Length | 551mm (21.7inches) |
| | Width | 110mm (4.33inches) |
| | Container Height | 288mm (11.3inches) |
| | Total Height | 288mm (11.3inches) |
| Approx Weight | 47.9kg (105.6lbs) | |
| Terminal | T6-A(M8) | |
| Container Material | ABS (UL94 HB or V-0 optional) | |
| Short-circuit current | 2800A | |
| Internal Resistance (25°C) | Approx 3.7 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 | |
| | -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% 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 | 311.4 | 253.2 | 217.9 | 171.3 | 125.2 | 98.0 | 76.7 | 57.5 | 46.3 | 34.5 | 27.2 | 23.0 | 15.9 | 13.6 |
| 1.80V/cell | 346.2 | 281.0 | 241.3 | 189.3 | 138.0 | 102.2 | 78.4 | 61.1 | 49.0 | 36.1 | 28.3 | 24.0 | 16.3 | 14.0 |
| 1.75V/cell | 373.8 | 302.9 | 259.7 | 203.2 | 147.5 | 107.5 | 81.2 | 63.5 | 50.9 | 37.3 | 29.2 | 24.6 | 16.4 | 14.1 |
| 1.70V/cell | 401.9 | 324.9 | 277.4 | 216.7 | 157.3 | 111.7 | 85.2 | 65.1 | 52.1 | 38.1 | 29.9 | 25.2 | 16.7 | 14.2 |
| 1.67V/cell | 444.9 | 358.5 | 305.4 | 238.1 | 172.3 | 115.1 | 88.5 | 66.8 | 53.3 | 38.9 | 30.3 | 25.5 | 16.9 | 14.4 |
| 1.60V/cell | 460.7 | 370.7 | 314.9 | 244.2 | 176.5 | 119.0 | 90.7 | 68.0 | 54.4 | 39.9 | 31.0 | 26.0 | 17.0 | 14.5 |

| 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 | 581.6 | 476.4 | 412.5 | 325.9 | 239.3 | 188.4 | 148.4 | 111.5 | 90.0 | 67.3 | 53.4 | 45.4 | 31.6 | 27.1 |
| 1.80V/cell | 635.9 | 520.9 | 451.0 | 356.3 | 261.6 | 195.2 | 150.8 | 117.8 | 94.8 | 70.1 | 55.2 | 47.0 | 32.2 | 27.8 |
| 1.75V/cell | 674.7 | 552.7 | 478.5 | 378.0 | 277.5 | 204.1 | 155.5 | 121.9 | 98.1 | 72.4 | 56.9 | 48.2 | 32.4 | 27.9 |
| 1.70V/cell | 713.5 | 584.4 | 506.0 | 399.7 | 293.5 | 210.6 | 162.4 | 124.3 | 100.0 | 73.6 | 58.0 | 49.1 | 32.9 | 28.1 |
| 1.67V/cell | 775.5 | 635.3 | 550.0 | 434.5 | 319.0 | 215.9 | 167.7 | 126.9 | 102.0 | 74.9 | 58.6 | 49.6 | 33.2 | 28.4 |
| 1.60V/cell | 786.4 | 644.1 | 557.7 | 440.6 | 323.5 | 221.0 | 170.7 | 128.4 | 103.3 | 76.3 | 59.6 | 50.4 | 33.3 | 28.6 |

LHR SERIES-HIGH RATE

LHR12550FT (12V550W)



APPLICATIONS

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

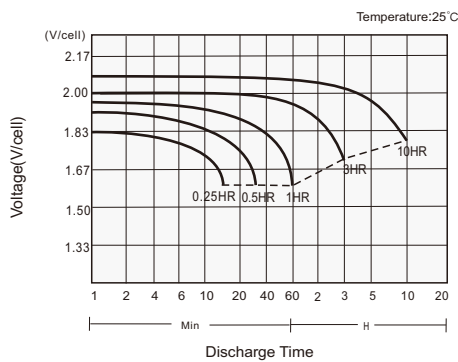
GENERAL FEATURES

- 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
- Optimal energy density - saves floor space
- Front access design for easy installation and maintenance

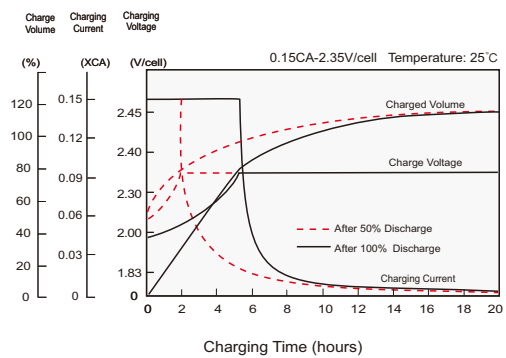
STANDARDS

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

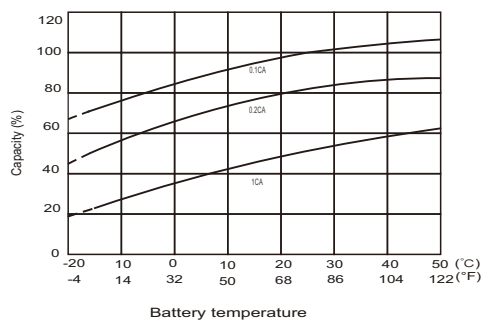
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

