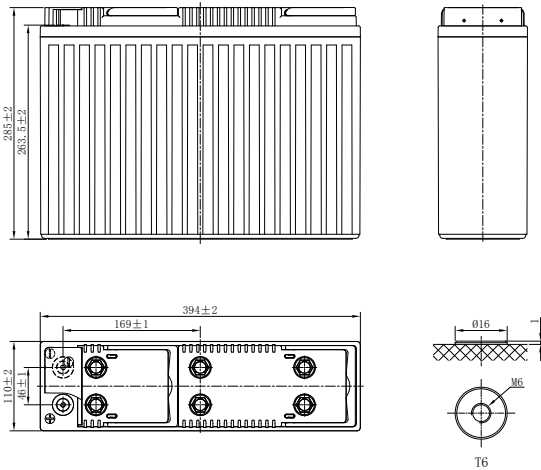


LPGF SERIES-FRONT TERMINAL GEL

LPGF12-100H (12V95Ah)



CHARACTERISTICS

| Item | Specifications | |
|-------------------------------|--|---------------------|
| Rated Voltage | 12V | |
| Nominal Capacity (25°C) | C ₂₀ , 1.80V/cell | 95Ah |
| Dimension | Length | 394mm (15.5inches) |
| | Width | 110mm (4.33inches) |
| | Container Height | 285mm (11.2inches) |
| | Total Height | 285mm (11.2inches) |
| Approx Weight | 35.0kg (77.2lbs) | |
| Terminal | T6(M6) | |
| Container Material | ABS (UL94 HB or V-0 optional) | |
| Short-circuit current | 1530A | |
| Internal Resistance (25°C) | Approx 5.7 mΩ (Fully charged) | |
| Operating Temp. Range | Discharge | -20~60°C (-4~140°F) |
| | Charge | -20~40°C (-4~104°F) |
| | Storage | -20~50°C (-4~122°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | |
| Max.Charging Current (25°C) | 0.25C | |
| Charge voltage (25°C) | Standby Use | Cycle Use |
| | 2.23-2.27V/cell | 2.35-2.40V/cell |
| Temp. Coefficient | -3mV/cell/°C | -5mV/cell/°C |
| | 40°C (104°F) | 103% |
| Effect of temp. to Capacity | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| | ≤2.5% per month at 25°C (77°F). LPGF series batteries may be stored up to 9 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |
| Self Discharge | | |

DISCHARGE TABLE

| Constant Current Discharge (Amperes) at 25°C (77°F) | | | | | | | | | | | | |
|--|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| F.V/Time | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 75.6 | 59.4 | 45.3 | 37.9 | 26.6 | 20.3 | 16.8 | 14.5 | 12.5 | 10.0 | 8.62 | 4.56 |
| 1.80V/cell | 86.6 | 66.3 | 49.9 | 41.8 | 28.8 | 21.7 | 17.8 | 15.2 | 13.1 | 10.4 | 9.00 | 4.75 |
| 1.75V/cell | 97.3 | 72.9 | 54.0 | 44.8 | 30.5 | 23.0 | 18.7 | 15.8 | 13.6 | 10.8 | 9.18 | 4.85 |
| 1.70V/cell | 104.9 | 78.1 | 57.3 | 47.4 | 32.4 | 23.9 | 19.3 | 16.3 | 14.0 | 11.1 | 9.39 | 4.96 |
| 1.67V/cell | 109.1 | 81.2 | 59.4 | 49.2 | 33.2 | 24.7 | 19.8 | 16.7 | 14.3 | 11.3 | 9.50 | 4.96 |
| 1.60V/cell | 118.3 | 86.9 | 63.8 | 52.2 | 34.6 | 25.7 | 20.5 | 17.2 | 14.6 | 11.5 | 9.69 | 5.03 |
| Constant Power Discharge (Watts/cell) at 25°C (77°F) | | | | | | | | | | | | |
| F.V/Time | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 144.7 | 114.4 | 87.8 | 73.8 | 52.0 | 39.8 | 33.1 | 28.6 | 24.7 | 19.8 | 17.2 | 9.10 |
| 1.80V/cell | 163.6 | 126.6 | 95.9 | 81.0 | 56.0 | 42.5 | 34.9 | 30.0 | 25.9 | 20.7 | 17.9 | 9.47 |
| 1.75V/cell | 181.8 | 137.7 | 102.8 | 86.3 | 59.2 | 44.7 | 36.4 | 31.0 | 26.7 | 21.3 | 18.2 | 9.65 |
| 1.70V/cell | 193.8 | 146.5 | 108.8 | 91.0 | 62.5 | 46.5 | 37.6 | 31.9 | 27.6 | 21.9 | 18.7 | 9.83 |
| 1.67V/cell | 199.4 | 150.2 | 111.6 | 93.7 | 63.8 | 47.7 | 38.4 | 32.5 | 28.0 | 22.2 | 18.8 | 9.85 |
| 1.60V/cell | 213.7 | 159.7 | 119.2 | 98.9 | 66.0 | 49.4 | 39.7 | 33.4 | 28.5 | 22.6 | 19.2 | 9.99 |

LPGF SERIES-FRONT TERMINAL GEL

LPGF12-100H (12V95Ah)



APPLICATIONS

- Communication system
- Power system of special network or local area network
- UPS, standby power supply
- Power station systems
- Marine systems

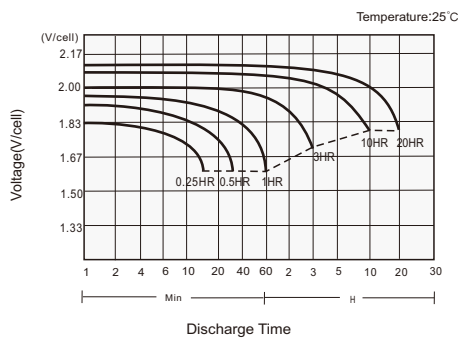
GENERAL FEATURES

- 12 years design life (25°C)
- Gelled electrolyte for superior thermal management, long float life
- Efficient gas recombination decreases gassing/water and extends battery life
- Robust design - resilient in harsh conditions
- Proof against deep discharge - greater long-term energy delivery and cycle life
- Front access design for easy installation and maintenance

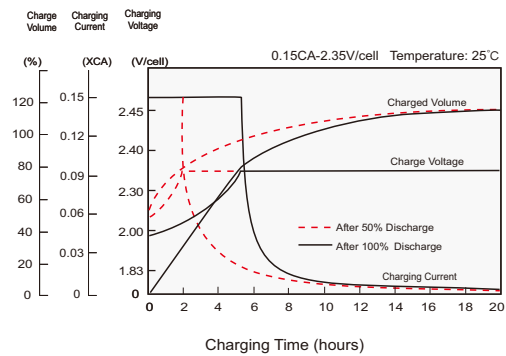
STANDARDS

- IEC60896 Certified
- Classified as "Long Life" according to Eurobat
- UL, CE Approved
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

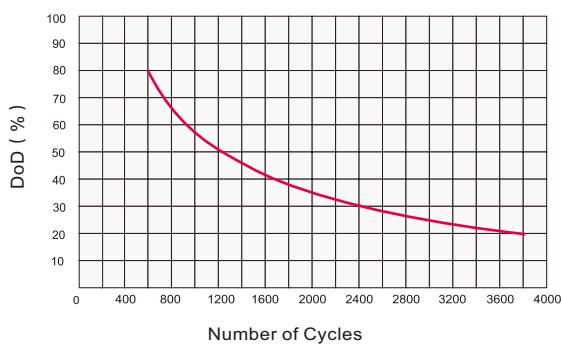
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics

