

LPGS Series-Gel Battery RMTS2-1000(2V1000Ah)

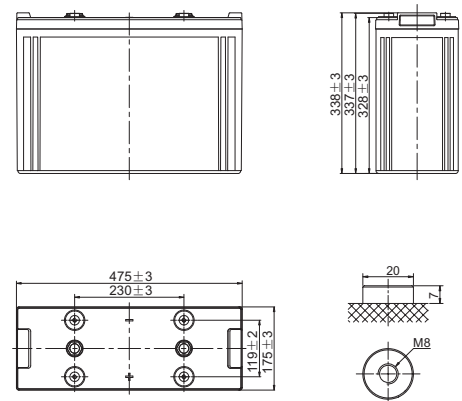


SPECIFICATIONS

| | | |
|-------------------------------|---|----------------------------|
| Rated Voltage | 2V | |
| Nominal Capacity | 1000.0Ah (C ₁₀ , 1.80V/cell) | |
| Dimension | Length | 475±3mm (18.7 inches) |
| | Width | 175±3mm (6.89 inches) |
| | Container Height | 328±3mm (12.9 inches) |
| | Total Height | 338±3mm (13.3 inches) |
| Approx Weight | 60.4 Kg (133.2 lbs) | |
| Terminal | M8 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 1036.0 Ah | (20hr, 51.8A, 1.80V/cell) |
| | 1000.0 Ah | (10hr, 100.0A, 1.80V/cell) |
| | 857.5 Ah | (5hr, 171.5A, 1.75V/cell) |
| | 756.3 Ah | (3hr, 252.1A, 1.75V/cell) |
| | 520.7 Ah | (1hr, 520.7A, 1.67V/cell) |
| Max. Discharge Current | 8000A (5s) | |
| Internal Resistance (25°C) | Approx 0.45mΩ | |
| Operating Temp. Range | Discharge : -20 ~ 55°C (-4 ~ 131°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) | |
| Cycle Use | Initial Charging Current less than 250.0A. Voltage 2.35V~2.40V at 25°C(77°F)Temp. Coefficient -5mV/°C | |
| | Initial Charging Current less than 250.0A. Voltage 2.23V~2.27V at 25°C(77°F)Temp. Coefficient -3mV/°C | |
| Effect of temp. to Capacity | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | LPGS series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |



DIMENSIONS



CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C (77°F)

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1.85V/cell | 1134.0 | 1000.1 | 900.1 | 744.5 | 590.4 | 477.2 | 296.9 | 238.7 | 188.5 | 162.1 | 138.8 | 111.8 | 95.3 | 50.7 |
| 1.80V/cell | 1340.8 | 1136.0 | 1002.0 | 798.9 | 621.1 | 500.7 | 313.3 | 251.0 | 197.0 | 170.2 | 145.0 | 116.2 | 100.0 | 51.8 |
| 1.75V/cell | 1512.1 | 1248.1 | 1080.1 | 846.0 | 653.1 | 504.2 | 326.2 | 252.1 | 203.5 | 171.5 | 148.5 | 118.3 | 100.8 | 52.5 |
| 1.70V/cell | 1623.1 | 1332.0 | 1155.2 | 887.7 | 674.2 | 507.0 | 335.8 | 254.5 | 208.1 | 172.7 | 151.0 | 120.2 | 101.5 | 53.2 |
| 1.67V/cell | 1683.5 | 1368.2 | 1155.2 | 909.3 | 692.5 | 520.7 | 340.9 | 256.3 | 210.2 | 173.8 | 152.3 | 121.0 | 102.2 | 53.3 |
| 1.60V/cell | 1812.4 | 1446.2 | 1235.0 | 947.4 | 716.9 | 540.2 | 350.1 | 259.0 | 214.0 | 176.5 | 154.7 | 122.7 | 103.8 | 54.0 |

CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C (77°F)

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.85V/cell | 2132.0 | 1892.1 | 1710.6 | 1423.1 | 1135.4 | 921.7 | 576.5 | 464.6 | 368.8 | 318.5 | 273.5 | 221.3 | 189.2 | 100.5 |
| 1.80V/cell | 2480.4 | 2118.9 | 1882.0 | 1513.7 | 1185.0 | 961.4 | 605.3 | 485.3 | 383.8 | 332.8 | 284.7 | 229.2 | 198.0 | 102.7 |
| 1.75V/cell | 2753.4 | 2295.2 | 2005.4 | 1588.0 | 1236.8 | 964.8 | 628.2 | 488.2 | 395.6 | 334.0 | 290.5 | 233.0 | 199.3 | 104.2 |
| 1.70V/cell | 2910.6 | 2421.9 | 2124.0 | 1653.5 | 1270.2 | 966.8 | 643.9 | 489.8 | 402.8 | 335.3 | 295.2 | 236.3 | 200.7 | 105.2 |
| 1.67V/cell | 2987.5 | 2464.3 | 2106.4 | 1679.4 | 1296.7 | 987.1 | 651.3 | 491.2 | 406.2 | 336.6 | 297.0 | 237.5 | 201.7 | 105.5 |
| 1.60V/cell | 3138.6 | 2553.2 | 2220.6 | 1732.0 | 1330.7 | 1015.6 | 664.4 | 496.2 | 411.6 | 340.7 | 300.5 | 240.2 | 204.7 | 106.7 |

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Applications

- Uninterruptable Power System
- Power system communication, military communication, etc.
- Telecommunications
- Network communication including: data transmission, television signal transmission, etc.

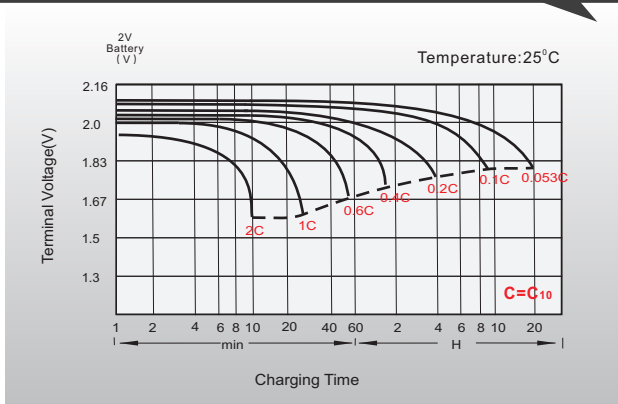
General Features

- Adopted advantage AGM-GEL technology
- Operation temperature -20 -55°C
- ≤3% Self discharge @25°

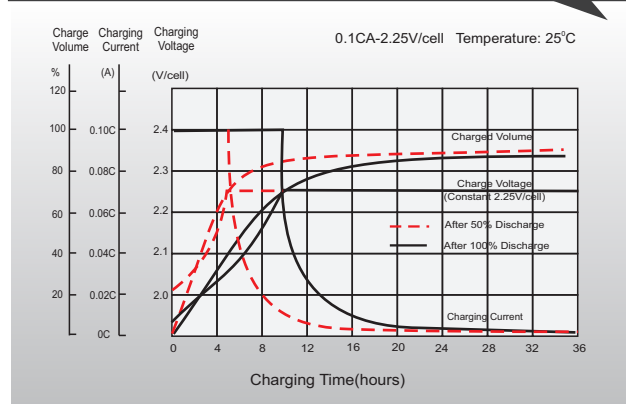
Standards

- IEC 60896 Certified
- Classified as "Very Long Life" according to Eurobat
- CE Certified
- Manufactured in Leoch®IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

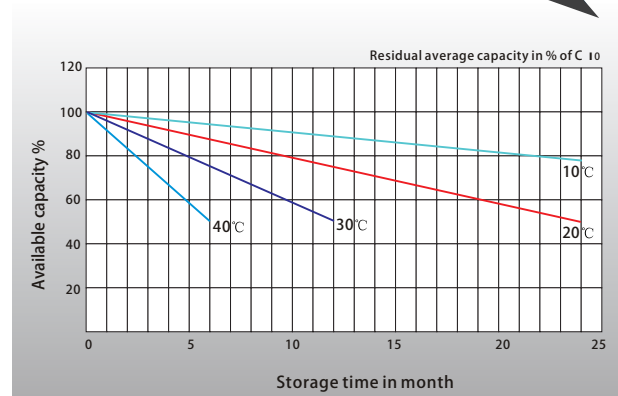
Discharge Characteristics



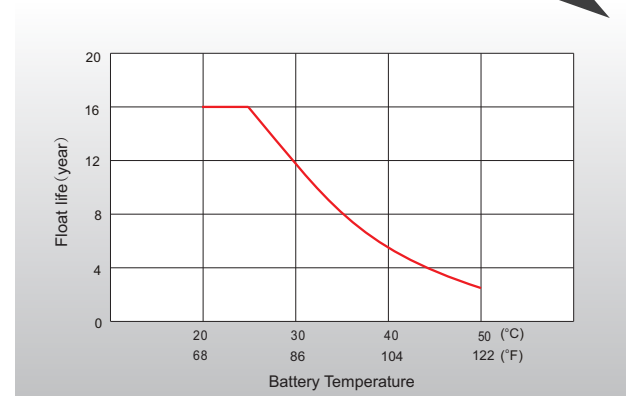
Float Charging Characteristics



General Relation of Capacity VS. Storage Time



Effect of Temperature on Long term Float life



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