# Grid Power 1000-2HT M8V0 (2V1000Ah)

AGM-Technology | High Temperature Type | Maintenance Free | Life Expectancy | Warranty

UPS | Emergency Lighting | Recyclable | Energy Saving | Flame Retardant

## Applications

- Uninterruptible power supply (UPS)
- Telecommunication base station
- High temperature station without air-condition
- Station in the open air

## Certificates

MH46465

Conform to IEC60896-21&22

## Specifications

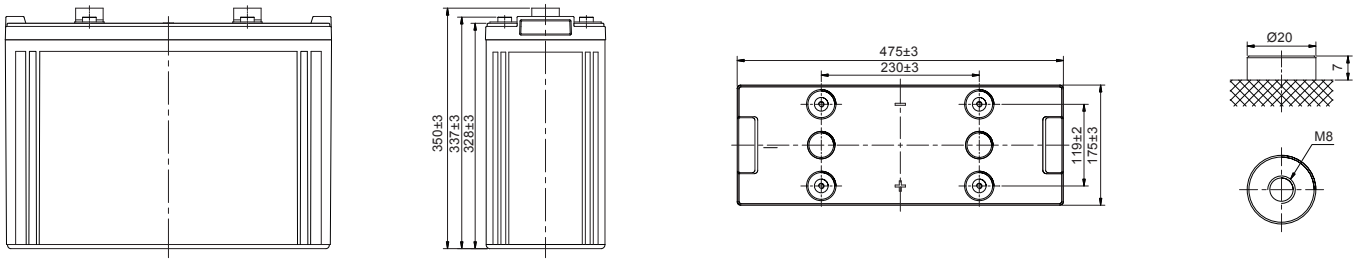
| | |
|---|---|
| **Nominal Voltage** | 2V |
| **Nominal Capacity** | 1000Ah ($C_{10}$,1.80V/cell) |
| **Approx. Weight** | 60.0kg |
| **Terminal** | M8 |
| **Container Material** | ABS UL94 V0 |
| **Rated Capacity (35°C)** | 1060.0Ah/53.0A, 20hr, 1.80V/cell |
| | 1000.0Ah/100.0A, 10hr, 1.80V/cell |
| | 888.0Ah/177.6A, 5hr, 1.75V/cell |
| | 795.0Ah/265.0A, 3hr, 1.75V/cell |
| | 641.1Ah/641.1A, 1hr, 1.60V/cell |
| **Max. Discharge Current** | 8000A (5s) |
| **Internal Resistance / Impedance (1kHz)** | Approx. 0.3mΩ |
| **Nominal Oper. Temp. R.** | 35 (+5/−15)°C |

| | | |
|---|---|---|
| **Operating Temp. Range** | Discharge: | -40~65°C |
| | Charge: | -20~45°C |
| | Storage: | -20~50°C |
| **Standby Use** | Initial Charging Current less than 250A. | |
| | Voltage 2.25V at 35°C. | |
| | Temperature Coefficient -3mV/°C. | |
| **Capacity affected by Temp.** | 40°C | 103% |
| | 35°C | 100% |
| | 0°C | 86% |
| **Self Discharge** | SSB Grid Power batteries may be stored for up to 6 months at 25°C/3 months at 35°C and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |
| **Life Expectancy** | Classified as „Very Long Life“ according EUROBAT. | |

## Dimensions

### M8 Terminal

Unit: mm | Dimensions: 475 Length X 175 Width X 328 Height (350 Height incl. Terminal)



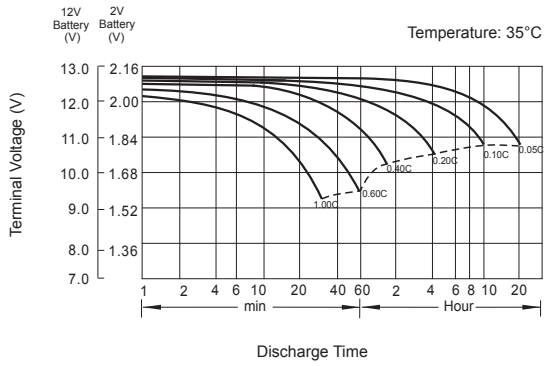
## Constant Current Discharge (Amperes) at 35°C

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 1166.7 | 990.0 | 903.6 | 813.0 | 684.0 | 560.0 | 471.0 | 312.0 | 240.6 | 194.3 | 163.8 | 142.8 | 114.0 | 95.6 | 50.6 |
| 1.80V/cell | 1420.0 | 1158.0 | 1029.7 | 915.0 | 754.0 | 608.0 | 510.6 | 333.0 | 252.6 | 202.5 | 170.6 | 148.0 | 118.8 | 100.0 | 53.0 |
| 1.75V/cell | 1659.7 | 1332.0 | 1165.0 | 1026.0 | 826.0 | 662.7 | 557.6 | 352.0 | 265.0 | 212.5 | 177.6 | 153.5 | 122.0 | 102.0 | 54.1 |
| 1.70V/cell | 1899.3 | 1494.0 | 1287.6 | 1116.0 | 888.0 | 702.7 | 589.9 | 369.5 | 276.7 | 220.0 | 182.9 | 158.3 | 125.6 | 104.5 | 55.4 |
| 1.67V/cell | 2039.1 | 1608.0 | 1388.0 | 1200.0 | 940.0 | 733.3 | 615.0 | 384.0 | 285.5 | 226.3 | 187.9 | 162.0 | 127.3 | 106.2 | 56.3 |
| 1.60V/cell | 2220.0 | 1722.0 | 1472.0 | 1260.0 | 982.0 | 765.3 | 641.1 | 398.5 | 292.2 | 231.3 | 191.8 | 165.0 | 129.5 | 107.2 | 56.7 |

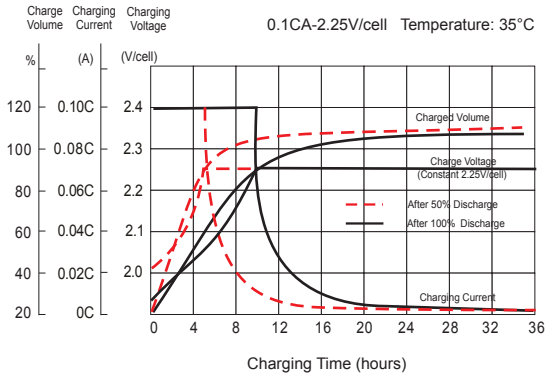
## Constant Power Discharge (Watts/cell) at 35°C

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 2179.0 | 1862.5 | 1710.9 | 1546.3 | 1307.2 | 1076.7 | 911.1 | 606.9 | 470.2 | 381.0 | 322.7 | 282.2 | 226.2 | 190.1 | 100.8 |
| 1.80V/cell | 2608.6 | 2146.9 | 1924.5 | 1722.0 | 1429.4 | 1161.3 | 982.1 | 644.6 | 491.4 | 395.8 | 334.6 | 291.3 | 234.9 | 198.6 | 105.4 |
| 1.75V/cell | 2995.7 | 2430.2 | 2146.6 | 1908.9 | 1554.0 | 1258.3 | 1067.8 | 678.7 | 514.1 | 414.0 | 347.1 | 301.2 | 240.8 | 202.3 | 107.3 |
| 1.70V/cell | 3371.3 | 2687.7 | 2348.3 | 2058.6 | 1656.6 | 1324.9 | 1123.8 | 709.4 | 534.7 | 426.8 | 356.4 | 310.2 | 247.7 | 207.1 | 109.9 |
| 1.67V/cell | 3554.2 | 2849.7 | 2499.8 | 2189.8 | 1740.5 | 1375.0 | 1164.9 | 734.2 | 549.3 | 437.5 | 364.9 | 316.4 | 250.3 | 210.2 | 111.6 |
| 1.60V/cell | 3789.5 | 2992.0 | 2607.2 | 2273.0 | 1800.0 | 1421.6 | 1205.9 | 757.2 | 559.3 | 445.2 | 371.1 | 321.3 | 254.2 | 211.8 | 112.2 |

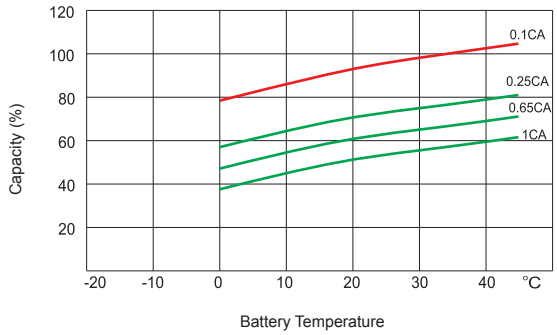
## Discharge Characteristics



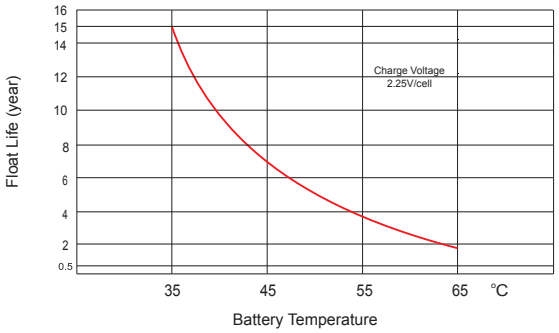

## Float Charging Characteristics




## Temperature Effects in Relation to Battery Capacity




## Effect of Temperature on Long Term Float Life




## Cycle Service Life in Relation to Depth of Discharge