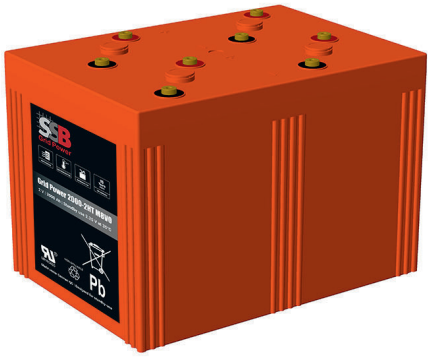
# Grid Power 2000-2HT M8V0 (2V2000Ah)

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 · ISO 9001

Conform to IEC60896-21&22

## Specifications

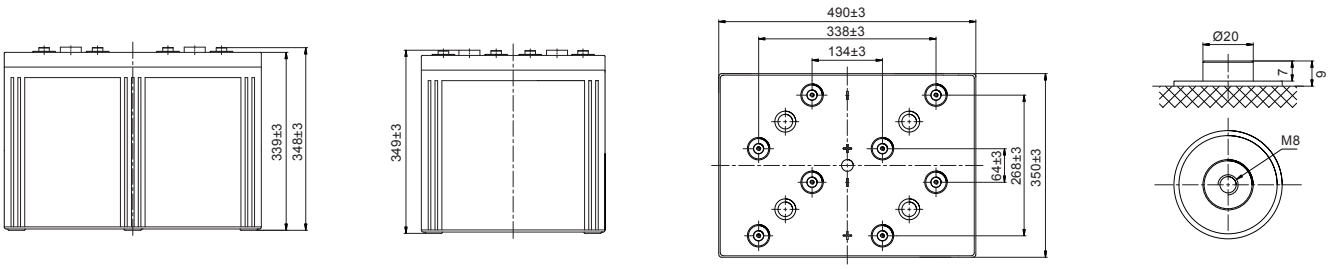
| | |
|---|---|
| **Nominal Voltage** | 2V |
| **Nominal Capacity** | 2000Ah ($C_{10}$,1.80V/cell) |
| **Approx. Weight** | 121.0kg |
| **Terminal** | M8 |
| **Container Material** | ABS UL94 V0 |
| **Rated Capacity (35°C)** | 2120.0Ah/106.0A, 20hr, 1.80V/cell |
| | 2000.0Ah/200.0A, 10hr, 1.80V/cell |
| | 1776.0Ah/355.2A, 5hr, 1.75V/cell |
| | 1590.0Ah/530.0A, 3hr, 1.75V/cell |
| | 1282.2Ah/1282.2A, 1hr, 1.60V/cell |
| **Max. Discharge Current** | 1600A (5s) |
| **Internal Resistance / Impedance (1kHz)** | Approx. 0.2mΩ |
| **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 500A. | |
| | 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: 490 Length X 350 Width X 339 Height (349 Height incl. Terminal)



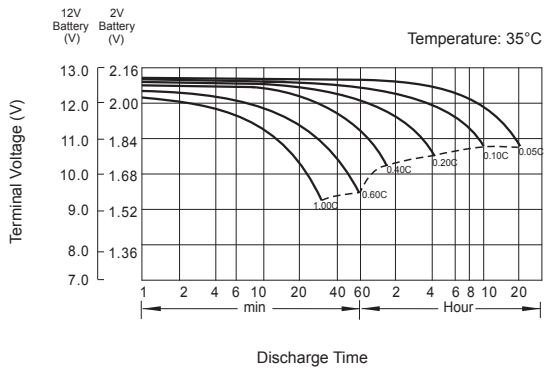
## Constant Current Discharge (Amperes) at 35°C

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 2333.4 | 1980.0 | 1807.2 | 1626.0 | 1368.0 | 1120.0 | 942.0 | 624.0 | 481.2 | 388.5 | 327.6 | 285.7 | 228.0 | 191.2 | 101.2 |
| 1.80V/cell | 2840.1 | 2316.0 | 2059.4 | 1830.0 | 1508.0 | 1216.0 | 1021.2 | 666.0 | 505.3 | 405.0 | 341.2 | 296.0 | 237.5 | 200.0 | 106.0 |
| 1.75V/cell | 3319.4 | 2664.0 | 2329.9 | 2052.0 | 1652.0 | 1325.3 | 1115.1 | 704.0 | 530.0 | 425.0 | 355.2 | 307.0 | 244.0 | 204.0 | 108.1 |
| 1.70V/cell | 3798.7 | 2988.0 | 2575.2 | 2232.0 | 1776.0 | 1405.3 | 1179.9 | 739.0 | 553.3 | 440.0 | 365.8 | 316.7 | 251.3 | 209.0 | 110.8 |
| 1.67V/cell | 4078.2 | 3216.0 | 2776.0 | 2400.0 | 1880.0 | 1466.7 | 1230.0 | 768.0 | 571.0 | 452.5 | 375.8 | 324.0 | 254.5 | 212.4 | 112.6 |
| 1.60V/cell | 4440.0 | 3444.0 | 2944.0 | 2520.0 | 1964.0 | 1530.7 | 1282.2 | 797.0 | 584.4 | 462.5 | 383.7 | 330.0 | 259.0 | 214.4 | 113.4 |

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

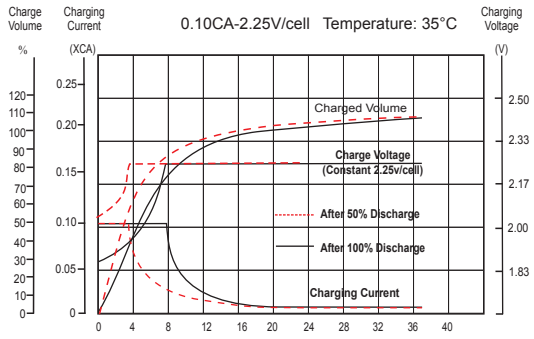
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 4357.9 | 3725.0 | 3421.7 | 3092.7 | 2614.4 | 2153.4 | 1822.1 | 1213.7 | 940.5 | 762.0 | 645.4 | 564.5 | 452.4 | 380.3 | 201.5 |
| 1.80V/cell | 5217.2 | 4293.9 | 3849.1 | 3444.1 | 2858.7 | 2322.6 | 1964.2 | 1289.2 | 982.8 | 791.7 | 669.2 | 582.5 | 469.9 | 397.2 | 210.7 |
| 1.75V/cell | 5991.4 | 4860.5 | 4293.1 | 3817.7 | 3107.9 | 2516.5 | 2135.5 | 1357.4 | 1028.2 | 827.9 | 694.3 | 602.3 | 481.6 | 404.6 | 214.7 |
| 1.70V/cell | 6742.6 | 5375.4 | 4696.6 | 4117.1 | 3313.1 | 2649.9 | 2247.6 | 1418.9 | 1069.4 | 853.6 | 712.9 | 620.4 | 495.5 | 414.3 | 219.8 |
| 1.67V/cell | 7108.4 | 5699.4 | 4999.6 | 4379.5 | 3481.0 | 2750.0 | 2329.7 | 1468.3 | 1098.7 | 874.9 | 729.8 | 632.8 | 500.6 | 420.3 | 223.1 |
| 1.60V/cell | 7579.1 | 5984.0 | 5214.4 | 4546.1 | 3600.0 | 2843.2 | 2411.8 | 1514.3 | 1118.7 | 890.3 | 742.1 | 642.5 | 508.4 | 423.6 | 224.4 |

## Discharge Characteristics



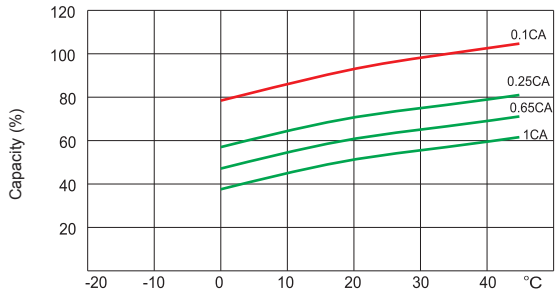

Discharge Time

## Float Charging Characteristics



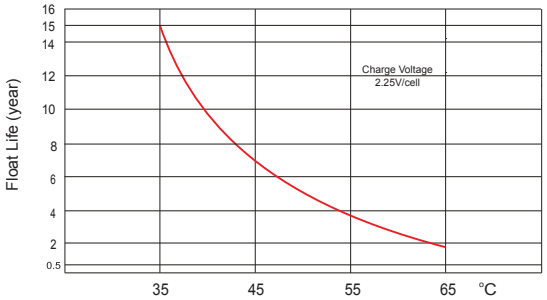

Charging Time (hours)

## Temperature Effects in Relation to Battery Capacity



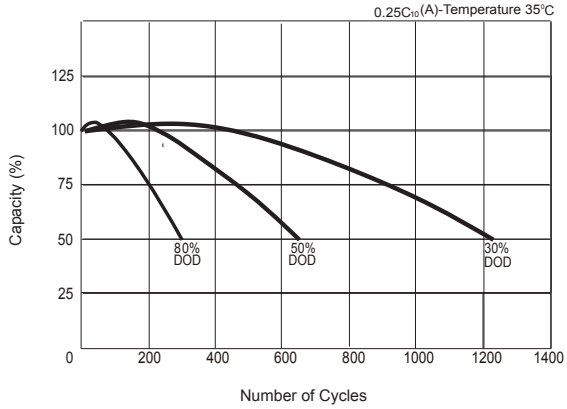

Battery Temperature

## Effect of Temperature on Long Term Float Life




Battery Temperature

## Cycle Service Life in Relation to Depth of Discharge




Number of Cycles