

Grid Power 3000-2HT M8V0 (2V3000Ah)



Applications

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

Certificates



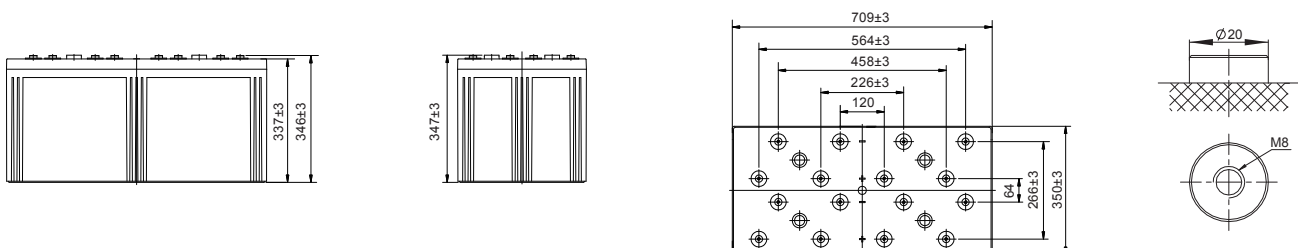
Specifications

| | | | | |
|---|---|-----------------------------------|---|----------|
| Nominal Voltage | 2V | Operating Temp. Range | Discharge: | -40~65°C |
| Nominal Capacity | 3000Ah (C ₁₀ , 1.80V/cell) | | Charge: | -20~45°C |
| Approx. Weight | 183.0kg | | Storage: | -20~50°C |
| Terminal | M8 | Standby Use | Initial Charging Current less than 750A. Voltage 2.25V at 35°C. Temperature Coefficient -3mV/°C. | |
| Container Material | ABS UL94 V0 | Capacity affected by Temp. | 40°C | 103% |
| Rated Capacity (35°C) | 3180.0Ah/159.0A, 20hr, 1.80V/cell 3000.0Ah/300.0A, 10hr, 1.80V/cell 2664.0Ah/532.8A, 5hr, 1.75V/cell 2385.0Ah/795.0A, 3hr, 1.75V/cell 1923.3Ah/1923.3A, 1hr, 1.60V/cell | | 35°C | 100% |
| Max. Discharge Current | 2400A (5s) | Self Discharge | 0°C | 86% |
| Internal Resistance / Impedance (1kHz) | Approx. 0.2mΩ | | 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. | |
| Nominal Oper. Temp. R. | 35 (+5/-15)°C | Life Expectancy | Classified as „Very Long Life“ according EUROBAT. | |

Dimensions

■ M8 Terminal

Unit: mm | Dimensions: 709 Length X 350 Width X 337 Height (347 Height incl. Terminal)



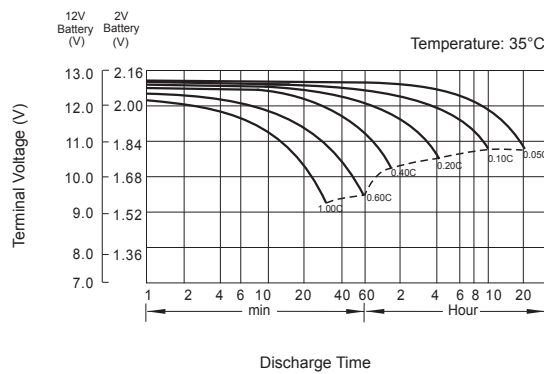
Constant Current Discharge (Amperes) at 35°C

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 1.85V/cell | 3500.2 | 2970.0 | 2710.8 | 2439.0 | 2052.0 | 1680.0 | 1413.0 | 936.0 | 721.9 | 582.8 | 491.4 | 428.5 | 342.0 | 286.8 | 151.8 |
| 1.80V/cell | 4260.1 | 3474.0 | 3089.2 | 2745.0 | 2262.0 | 1824.0 | 1531.8 | 999.0 | 757.9 | 607.5 | 511.8 | 444.0 | 356.3 | 300.0 | 159.0 |
| 1.75V/cell | 4979.0 | 3996.0 | 3494.9 | 3078.0 | 2478.0 | 1988.0 | 1672.7 | 1056.0 | 795.0 | 637.5 | 532.8 | 460.5 | 366.0 | 306.0 | 162.2 |
| 1.70V/cell | 5698.0 | 4482.0 | 3862.8 | 3348.0 | 2664.0 | 2108.0 | 1769.8 | 1108.5 | 830.0 | 660.0 | 548.7 | 475.0 | 376.9 | 313.5 | 166.2 |
| 1.67V/cell | 6117.4 | 4824.0 | 4164.0 | 3600.0 | 2820.0 | 2200.0 | 1845.0 | 1152.0 | 856.5 | 678.8 | 563.7 | 486.0 | 381.8 | 318.6 | 168.9 |
| 1.60V/cell | 6660.0 | 5166.0 | 4416.0 | 3780.0 | 2946.0 | 2296.0 | 1923.3 | 1195.5 | 876.6 | 693.8 | 575.5 | 495.0 | 388.5 | 321.6 | 170.1 |

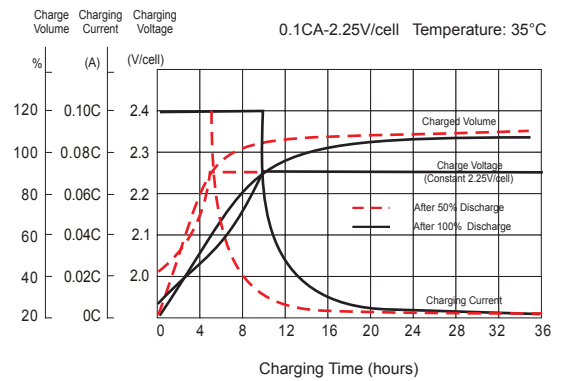
Constant Power Discharge (Watts/cell) at 35°C

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 1.85V/cell | 6536.9 | 5587.5 | 5132.6 | 4639.0 | 3921.6 | 3230.1 | 2733.2 | 1820.6 | 1410.7 | 1142.9 | 968.1 | 846.7 | 678.7 | 570.4 | 302.3 |
| 1.80V/cell | 7825.8 | 6440.8 | 5773.6 | 5166.1 | 4288.1 | 3483.8 | 2946.3 | 1933.9 | 1474.2 | 1187.5 | 1003.8 | 873.8 | 704.8 | 595.8 | 316.1 |
| 1.75V/cell | 8987.2 | 7290.7 | 6439.7 | 5726.6 | 4661.9 | 3774.8 | 3203.3 | 2036.1 | 1542.3 | 1241.9 | 1041.4 | 903.5 | 722.4 | 607.0 | 322.0 |
| 1.70V/cell | 10113.9 | 8063.1 | 7044.9 | 6175.7 | 4969.7 | 3974.8 | 3371.3 | 2128.3 | 1604.1 | 1280.4 | 1069.3 | 930.5 | 743.2 | 621.4 | 329.7 |
| 1.67V/cell | 10662.6 | 8549.1 | 7499.4 | 6569.3 | 5221.5 | 4125.0 | 3494.6 | 2202.5 | 1648.0 | 1312.4 | 1094.7 | 949.2 | 750.9 | 630.5 | 334.7 |
| 1.60V/cell | 11368.6 | 8975.9 | 7821.6 | 6819.1 | 5400.0 | 4264.8 | 3617.7 | 2271.5 | 1678.0 | 1335.5 | 1113.2 | 963.8 | 762.6 | 635.4 | 336.6 |

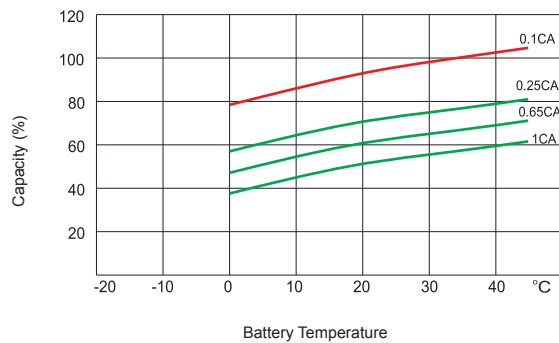
Discharge Characteristics



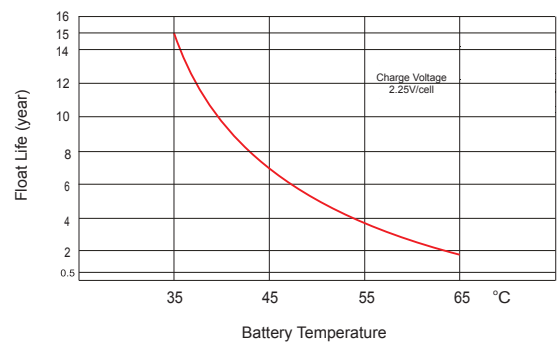
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Service Life in Relation to Depth of Discharge

