

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



## Applications

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

## Certificates



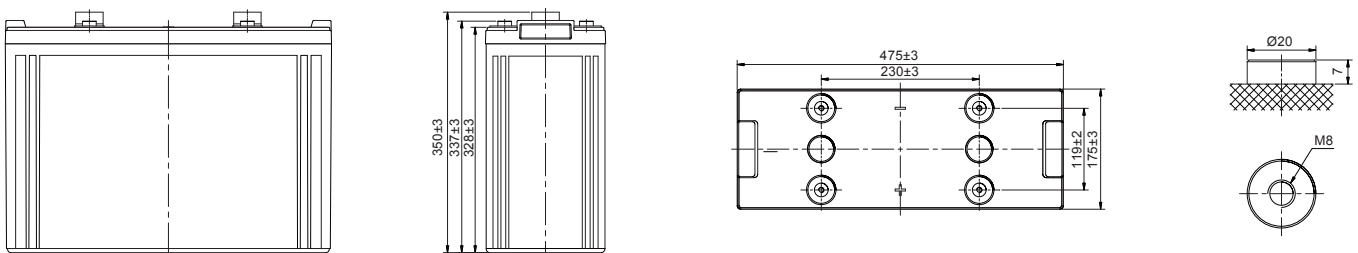
## Specifications

<b>Nominal Voltage</b>	2V	<b>Operating Temp. Range</b>	Discharge: -40~65°C
<b>Nominal Capacity</b>	1000Ah (C <sub>10</sub> , 1.80V/cell)		Charge: -20~45°C
<b>Approx. Weight</b>	60.0kg		Storage: -20~50°C
<b>Terminal</b>	M8	<b>Standby Use</b>	Initial Charging Current less than 250A.
<b>Container Material</b>	ABS UL94 V0		Voltage 2.25V at 35°C.
<b>Rated Capacity (35°C)</b>	1060.0Ah/53.0A, 20hr, 1.80V/cell		Temperature Coefficient -3mV/°C.
	1000.0Ah/100.0A, 10hr, 1.80V/cell	<b>Capacity affected by Temp.</b>	40°C 103%
	888.0Ah/177.6A, 5hr, 1.75V/cell		35°C 100%
	795.0Ah/265.0A, 3hr, 1.75V/cell		0°C 86%
	641.1Ah/641.1A, 1hr, 1.60V/cell	<b>Self Discharge</b>	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.
<b>Max. Discharge Current</b>	8000A (5s)	<b>Life Expectancy</b>	Classified as „Very Long Life“ according EUROBAT.
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 0.3mΩ		
<b>Nominal Oper. Temp. R.</b>	35 (+5/-15)°C		

## Dimensions

### ■ M8 Terminal

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



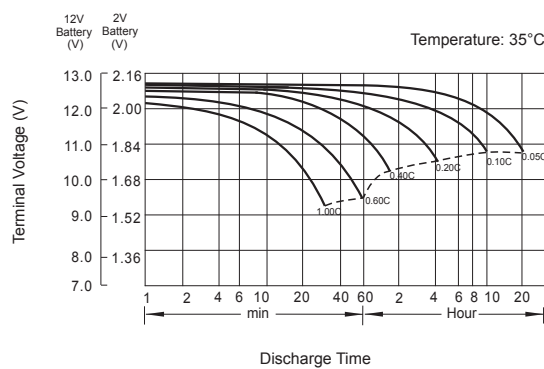
## Constant Current Discharge (Amperes) at 35°C

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

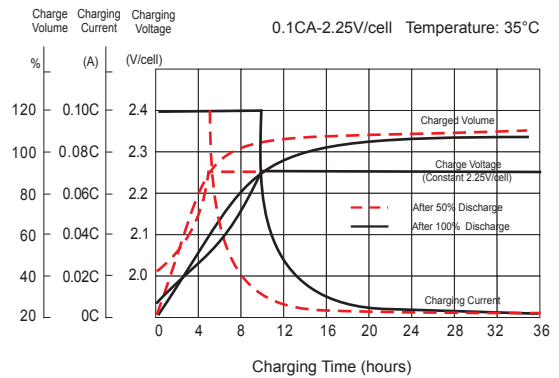
## Constant Power Discharge (Watts/cell) at 35°C

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

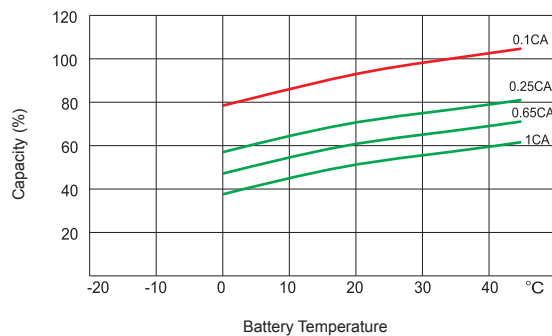
## Discharge Characteristics



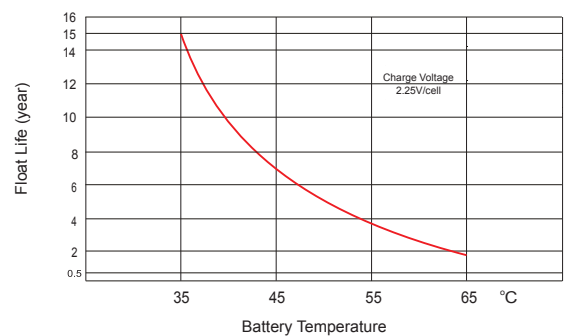
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



## Cycle Service Life in Relation to Depth of Discharge

