Grid Power 500-2HT M8V0 (2V500Ah)

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

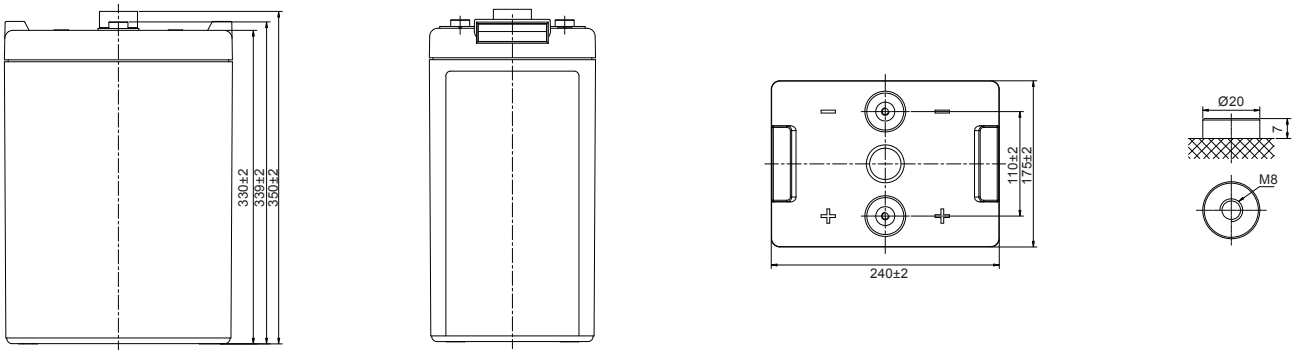
Specifications

Nominal Voltage	2V	
Nominal Capacity	500Ah (C_{10},1.80V/cell)	
Approx. Weight	30.0kg	
Terminal	M8	
Container Material	ABS UL94 V0	
Rated Capacity (35°C)	530.0Ah/26.5A, 20hr, 1.80V/cell	
	500.0Ah/50.0A, 10hr, 1.80V/cell	
	444.0Ah/88.8A, 5hr, 1.75V/cell	
	397.5Ah/132.5A, 3hr, 1.75V/cell	
	320.6Ah/320.6A, 1hr, 1.60V/cell	
Max. Discharge Current	4000A (5s)	
Internal Resistance / Impedance (1kHz)	Approx. 0.6mΩ	
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 125A. 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: 240 Length X 175 Width X 330 Height (350 Height incl. Terminal)



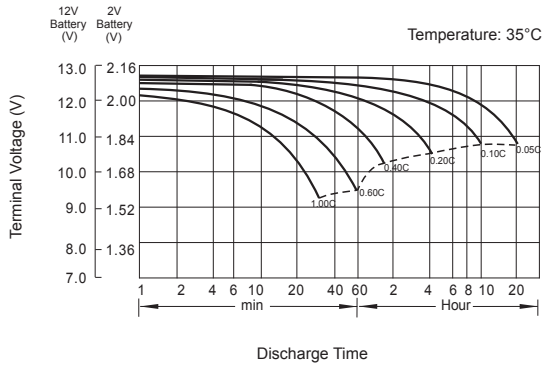
Constant Current Discharge (Amperes) at 35°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	583.4	495.0	451.8	406.5	342.0	280.0	235.5	156.0	120.3	97.1	81.9	71.4	57.0	47.8	25.3
1.80V/cell	710.0	579.0	514.9	457.5	377.0	304.0	255.3	166.5	126.3	101.3	85.3	74.0	59.4	50.0	26.5
1.75V/cell	829.8	666.0	582.5	513.0	413.0	331.3	278.8	176.0	132.5	106.3	88.8	76.8	61.0	51.0	27.0
1.70V/cell	949.7	747.0	643.8	558.0	444.0	351.3	295.0	184.8	138.3	110.0	91.4	79.2	62.8	52.3	27.7
1.67V/cell	1019.6	804.0	694.0	600.0	470.0	366.7	307.5	192.0	142.7	113.1	94.0	81.0	63.6	53.1	28.1
1.60V/cell	1110.0	861.0	736.0	630.0	491.0	382.7	320.6	199.3	146.1	115.6	95.9	82.5	64.8	53.6	28.4

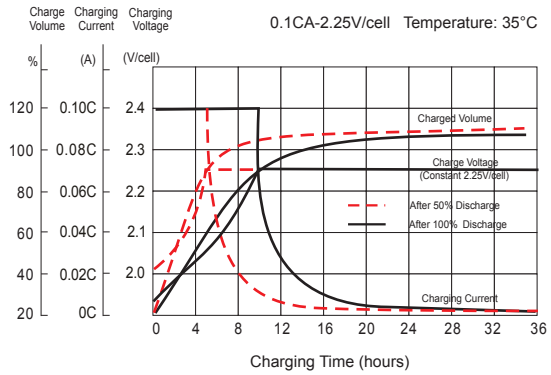
Constant Power Discharge (Watts/cell) at 35°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1089.5	931.2	855.4	773.2	653.6	538.4	455.5	303.4	235.1	190.5	161.3	141.1	113.1	95.1	50.4
1.80V/cell	1304.3	1073.5	962.3	861.0	714.7	580.6	491.1	322.3	245.7	197.9	167.3	145.6	117.5	99.3	52.7
1.75V/cell	1497.9	1215.1	1073.3	954.4	777.0	629.1	533.9	339.3	257.1	207.0	173.6	150.6	120.4	101.2	53.7
1.70V/cell	1685.7	1343.9	1174.2	1029.3	828.3	662.5	561.9	354.7	267.4	213.4	178.2	155.1	123.9	103.6	55.0
1.67V/cell	1777.1	1424.8	1249.9	1094.9	870.3	687.5	582.4	367.1	274.7	218.7	182.5	158.2	125.2	105.1	55.8
1.60V/cell	1894.8	1496.0	1303.6	1136.5	900.0	710.8	603.0	378.6	279.7	222.6	185.5	160.6	127.1	105.9	56.1

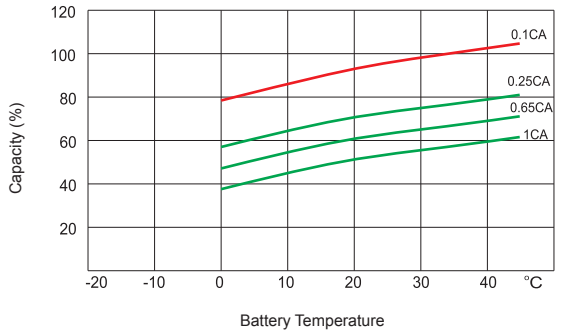
Discharge Characteristics



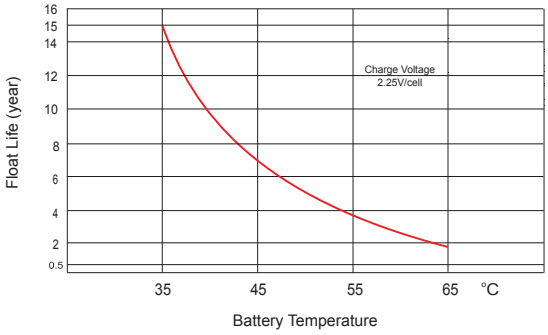
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Service Life in Relation to Depth of Discharge