



Grid Power 500-2HT M8V0 (2V500Ah)

Applications

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

Certificates



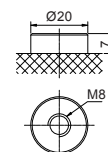
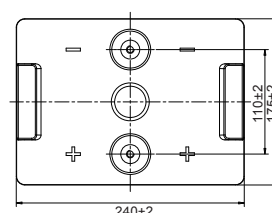
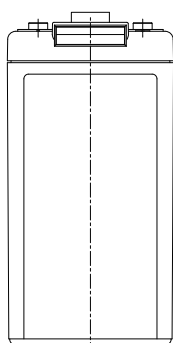
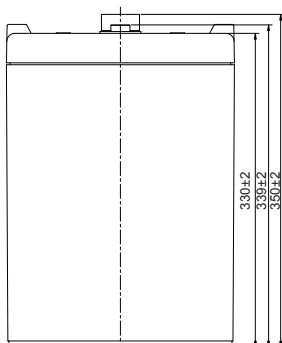
Specifications

Nominal Voltage	2V	Operating Temp. Range	Discharge:	-40~65°C
Nominal Capacity	500Ah (C ₁₀ 1.80V/cell)		Charge:	-20~45°C
Approx. Weight	30.0kg		Storage:	-20~50°C
Terminal	M8	Standby Use	Initial Charging Current less than 125A.	
Container Material	ABS UL94 V0		Voltage 2.25V at 35°C.	
Rated Capacity (35°C)	530.0Ah/26.5A, 20hr, 1.80V/cell		Temperature Coefficient -3mV/°C.	
	500.0Ah/50.0A, 10hr, 1.80V/cell	Capacity affected by Temp.	40°C	103%
	444.0Ah/88.8A, 5hr, 1.75V/cell		35°C	100%
	397.5Ah/132.5A, 3hr, 1.75V/cell		0°C	86%
	320.6Ah/320.6A, 1hr, 1.60V/cell	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.	
Max. Discharge Current	4000A (5s)	Life Expectancy	Classified as „Very Long Life“ according EUROBAT.	
Internal Resistance / Impedance (1kHz)	Approx. 0.6mΩ			
Nominal Oper. Temp. R.	35 (+5/-15)°C			

Dimensions

■ M8 Terminal

Unit: mm | Dimensions: 240 Length X 175 Width X 330 Height (350 Height incl. Terminal)



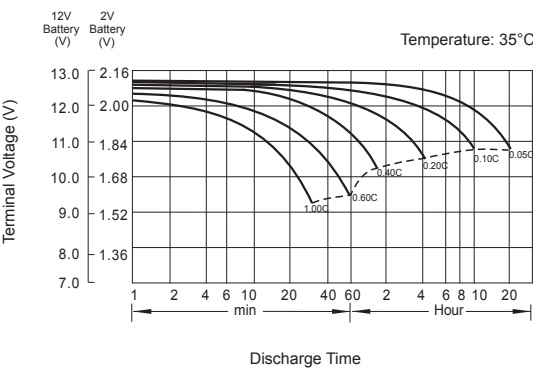
Constant Current Discharge (Amperes) at 35°C

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

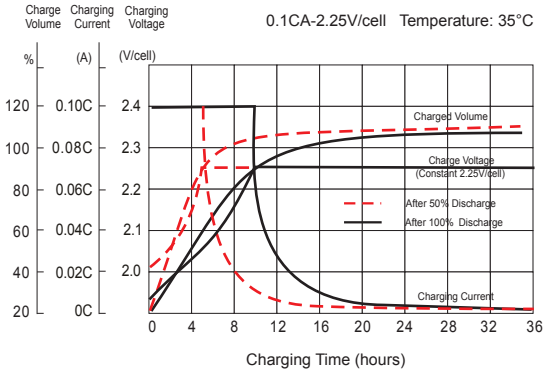
Constant Power Discharge (Watts/cell) at 35°C

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

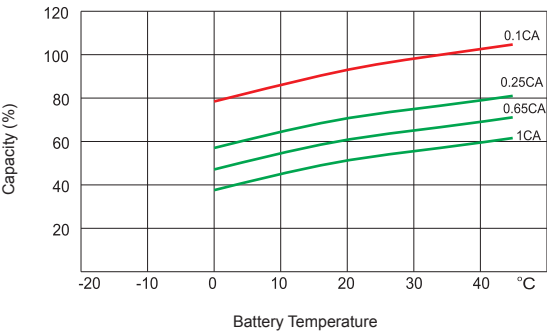
Discharge Characteristics



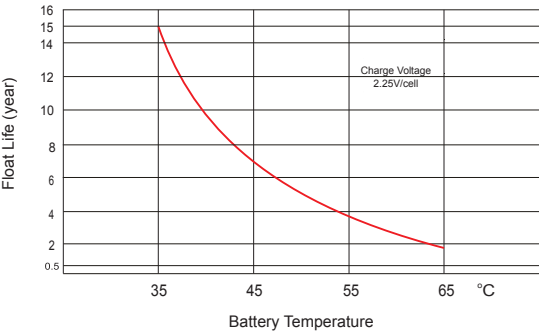
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Service Life in Relation to Depth of Discharge

