



Grid Power 300-2HT M8V0 (2V300Ah)

Applications

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

Certificates



Conform to
IEC60896-21&22



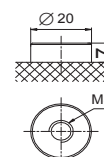
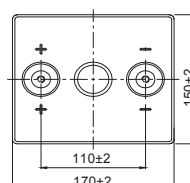
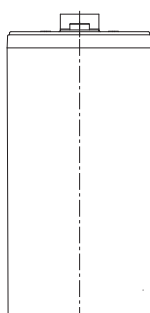
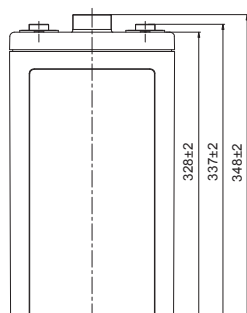
Specifications

Nominal Voltage	2V	Operating Temp. Range	Discharge:	-40~65°C
Nominal Capacity	300Ah (C ₁₀ 1.80V/cell)		Charge:	-20~45°C
Approx. Weight	18.8kg		Storage:	-20~50°C
Terminal	M8	Standby Use	Initial Charging Current less than 75A.	
Container Material	ABS UL94 V0		Voltage 2.25V at 35°C.	
Rated Capacity (35°C)	318.0Ah/15.9A, 20hr, 1.80V/cell		Temperature Coefficient -3mV/°C.	
	300.0Ah/30.0A, 10hr, 1.80V/cell	Capacity affected by Temp.	40°C	103%
	266.5Ah/53.3A, 5hr, 1.75V/cell		35°C	100%
	238.5Ah/79.5A, 3hr, 1.75V/cell		0°C	86%
	192.3Ah/192.3A, 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	2400A (5s)	Life Expectancy	Classified as „Very Long Life“ according EUROBAT.	
Internal Resistance / Impedance (1kHz)	Approx. 0.8mΩ			
Nominal Oper. Temp. R.	35 (+5/-15)°C			

Dimensions

■ M8 Terminal

Unit: mm | Dimensions: 170 Length X 150 Width X 328 Height (348 Height incl. Terminal)



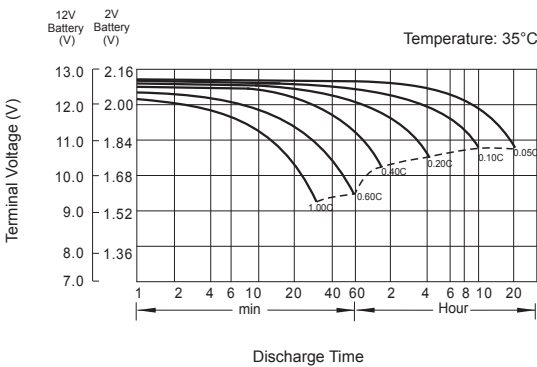
Constant Current Discharge (Amperes) at 35°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	350.0	297.0	271.1	243.9	205.2	168.0	141.3	93.6	72.2	58.3	49.1	42.9	34.2	28.7	15.2
1.80V/cell	426.0	347.4	308.9	274.5	226.2	182.4	153.2	99.9	75.8	60.8	51.2	44.4	35.6	30.0	15.9
1.75V/cell	497.9	399.6	349.5	307.8	247.8	198.8	167.3	105.6	79.5	63.8	53.3	46.1	36.6	30.6	16.2
1.70V/cell	569.8	448.2	386.3	334.8	266.4	210.8	177.0	110.9	83.0	66.0	54.9	47.5	37.7	31.4	16.6
1.67V/cell	611.7	482.4	416.4	360.0	282.0	220.0	184.5	115.2	85.6	67.9	56.4	48.6	38.2	31.9	16.9
1.60V/cell	666.0	516.6	441.6	378.0	294.6	229.6	192.3	119.6	87.7	69.4	57.5	49.5	38.9	32.2	17.0

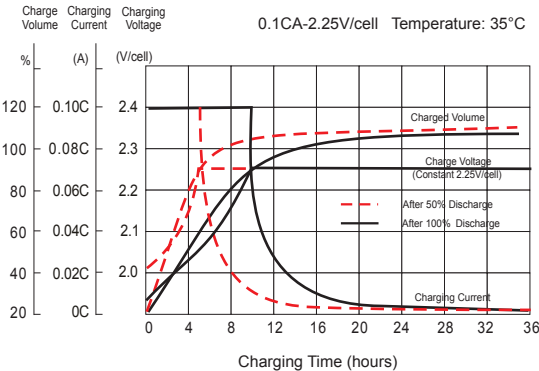
Constant Power Discharge (Watts/cell) at 35°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	653.7	558.7	513.3	463.9	392.2	323.0	273.3	182.1	141.1	114.3	96.8	84.7	67.9	57.0	30.2
1.80V/cell	782.6	644.1	577.4	516.6	428.8	348.4	294.6	193.4	147.4	118.7	100.4	87.4	70.5	59.6	31.6
1.75V/cell	898.7	729.1	644.0	572.7	466.2	377.5	320.3	203.6	154.2	124.2	104.1	90.4	72.2	60.7	32.2
1.70V/cell	1011.4	806.3	704.5	617.6	497.0	397.5	337.1	212.8	160.4	128.0	106.9	93.1	74.3	62.1	33.0
1.67V/cell	1066.3	854.9	749.9	656.9	522.2	412.5	349.5	220.3	164.8	131.2	109.5	94.9	75.1	63.1	33.5
1.60V/cell	1136.9	897.6	782.2	681.9	540.0	426.5	361.8	227.1	167.8	133.5	111.3	96.4	76.3	63.5	33.7

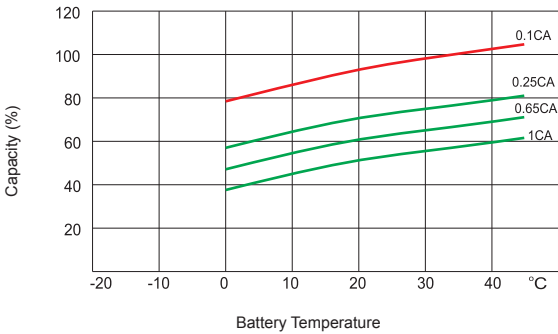
Discharge Characteristics



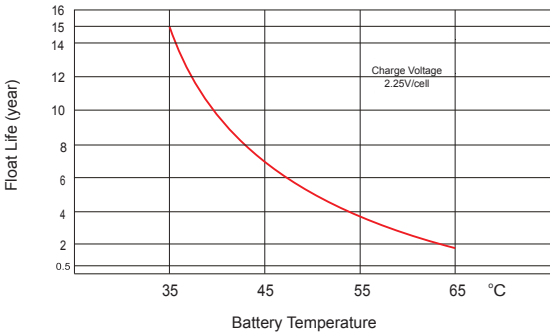
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Service Life in Relation to Depth of Discharge

