



ASAGM-121000M8(12V100Ah)



Specification

Nomial Voltage	12V	
Nomial Capacity(10HR)	100 AH	
Dimension	Length	329± 3mm (12.9 5 inches)
	Width	172 ± 2mm (6. 77 inches)
	Container Height	214 ± 2mm (8. 43 inches)
	Total Height (with Terminal)	243 ±2mm (9.57 inches)
Approx Weight	Approx 28.1 kg (61.95lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity	104.0 AH/5.20A	(20hr ,1.80V/cell,25℃/77℃)
	100.0 AH/10.0A	(10hr,1.80V/cell,25℃/77℃)
	86.0 AH/17.2A	(5hr,1.75V/cell,25℃/77℃)
	78.0 AH/26.0A	(3hr,1.75V/cell,25℃/77℃)
	61.0 AH/61.0A	(1hr,1.60V/cell,25℃/77℃)
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 4.8mΩ	
Operating Temp.Range	Discharge : -15 ~50℃ (5 ~122℃)	
	Charge : 0 ~40℃ (32 ~104℃)	
	Storage : -15 ~40℃ (5 ~104℃)	
Nominal Operating Temp. Range	25 ± 3℃ (77 ± 5℃)	
Cycle Use	Initial Charging Current less than 30.0A.Voltage	
	14.4V~15.0V at 25 ℃ (77 ℃)Temp. Coefficient -30mV/ ℃	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25 ℃ (77 ℃)Temp. Coefficient -20mV/ ℃	
Capacity affected by Temperature	40℃ (104 ℃)	103%
	25℃ (77 ℃)	100%
	0℃ (32 ℃)	86%

Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto controlsystem



Constant Current Discharge (Amperes) at 25℃ (77℃)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	171.2	134.6	114.4	95.7	76.1	57.6	47.1	30.0	23.7	19.4	15.6	13.6	11.0	9.44	5.15
1.80V/cell	229.7	171.9	138.3	113.1	89.8	67.0	52.8	32.8	25.6	20.7	16.8	14.6	11.7	10.0	5.20
1.75V/cell	259.0	188.9	151.0	121.7	93.2	69.5	55.3	34.0	26.0	21.2	17.2	15.0	11.9	10.1	5.25
1.70V/cell	285.2	205.9	161.2	127.9	97.0	72.3	57.0	35.3	26.8	21.7	17.7	15.3	12.1	10.2	5.35
1.65V/cell	314.5	222.2	171.4	135.9	102.3	74.1	58.9	36.3	27.9	22.5	18.1	15.6	12.3	10.4	5.42
1.60V/cell	346.9	241.3	183.4	144.8	108.0	77.2	61.0	37.6	28.7	23.2	18.7	16.0	12.4	10.5	5.45

Constant Power Discharge (Watts) at 25℃ (77℃)

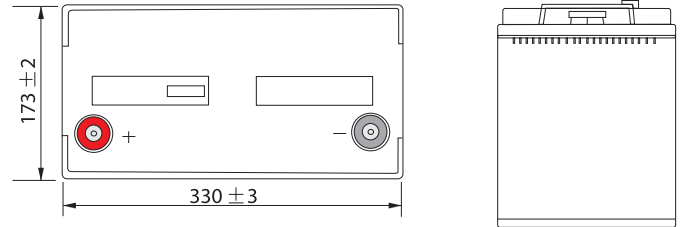
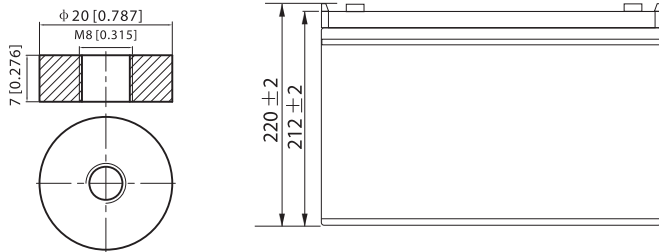
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	312.9	248.6	213.5	180.4	145.0	110.7	90.9	58.3	46.3	37.9	30.6	26.8	21.8	18.7	10.2
1.80V/cell	415.6	313.9	254.5	210.1	168.5	127.7	101.3	63.2	49.5	40.3	32.8	28.6	23.1	19.8	10.3
1.75V/cell	458.6	339.3	274.6	223.9	173.5	131.3	105.5	65.3	50.2	41.0	33.5	29.3	23.4	19.9	10.4
1.70V/cell	491.0	361.5	289.1	233.5	179.5	136.0	108.5	67.8	51.5	42.0	34.3	29.8	23.7	20.1	10.6
1.65V/cell	533.7	386.5	305.0	246.2	187.8	138.1	111.3	69.3	53.5	43.3	35.1	30.4	24.0	20.5	10.7
1.60V/cell	575.1	410.1	320.8	259.4	196.9	143.2	114.7	71.2	54.9	44.5	36.2	31.0	24.2	20.7	10.8

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

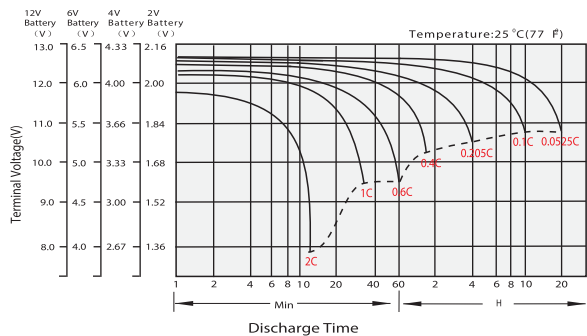
Dimensions

T11 Terminal

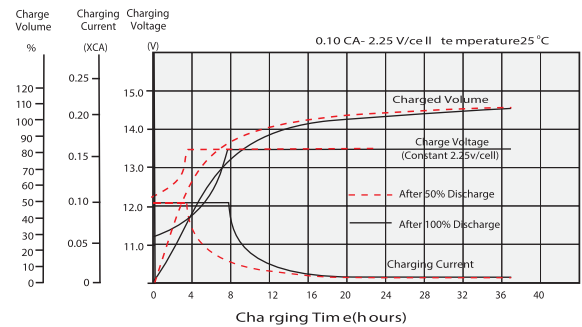
Unit: mm [inches]



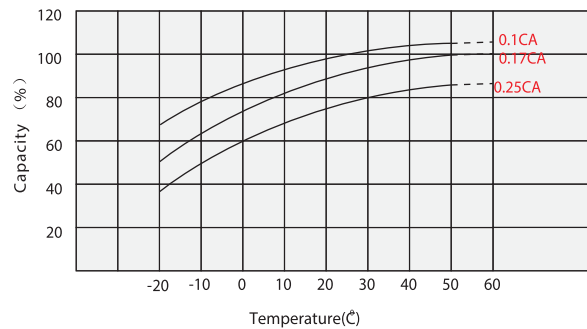
Discharge Characteristics



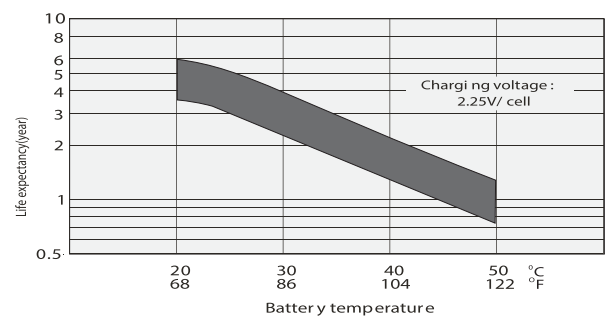
Float Charging Characteristics



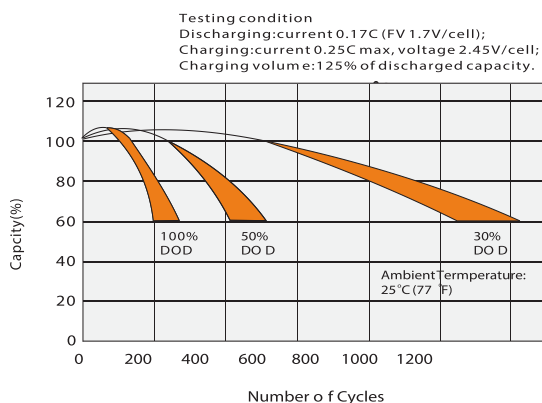
Temperature Effects in Relation to Battery Capacity



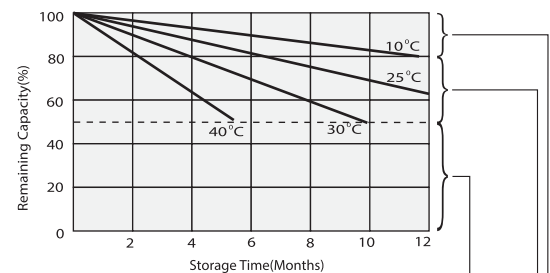
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Supplementary charge may often fail to recover the capacity.
 The battery should never be left standing till this is reached.

Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8 ~ 10 hours at limited current 0.05CA.

No supplementary charge required
 (Carry out supplementary charge before use if 100% capacity is required.)