



  
**AGM Battery  
(12V55AH)**
**B00408/BAT22-AGM-55A**
**Applications**

- Electric tools
- Vehicle in place of walking
- Lawn mowers
- Golf trolleys and golf cart
- Portable apparatus, lights and instruments
- Electric toys
- Illumination light
- Fire alarms
- Portable power
- Wheelchairs
- Medical equipment

<b>Specification</b>	
Nominal voltage	12V
Nominal capacity (20h)	55 Ah
Dimensions	Length : 229 ± 3 mm (9.02 inches) Width : 138 ± 2 mm (5.43 inches) Container height : 210 ± 3 mm (8.27 inches) Total height (with terminal) : 230 ± 3 mm (9.06 inches)
Weight	Approx. 17.7kg (39 lb)
Terminal	T14
Container material	ABS
Rated capacity	59.0 Ah/2.95 A (20h, 1.80V/cell, 25°C/77°F) 55.0 Ah/5.50 A (10h, 1.80V/cell, 25°C/77°F) 48.2 Ah/9.65 A (5h, 1.75V/cell, 25°C/77°F) 43.7 Ah/14.6 A (3h, 1.75V/cell, 25°C/77°F) 35.5 Ah/35.5 A (1h, 1.60V/cell, 25°C/77°F)
Max. discharge current	660 A (5s)
Internal resistance	Approx. 7.5 mΩ
Operating temperature range	Discharge : -15~50°C (5~122°F) Charge : 0~40°C (32~104°F) Storage : -15~40°C (5~104°F)
Nominal operating temp. range	25 ± 3°C (77 ± 5°F)
Cycle use	Initial charging current less than 16.5 A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
Standby use	No limit on initial charging current voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
Capacity according to temperature	40°C (104°F) : 103% 25°C (77°F) : 100% 0°C (32°F) : 86%
Self discharge	CG Power AGM series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

**Constant Current Discharge (Amperes) at 25°C (77°F)**

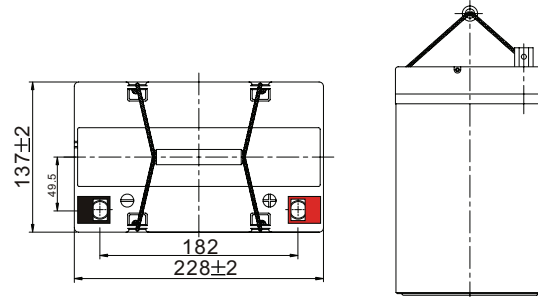
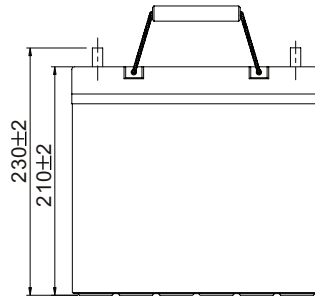
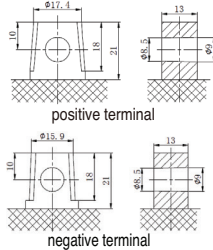
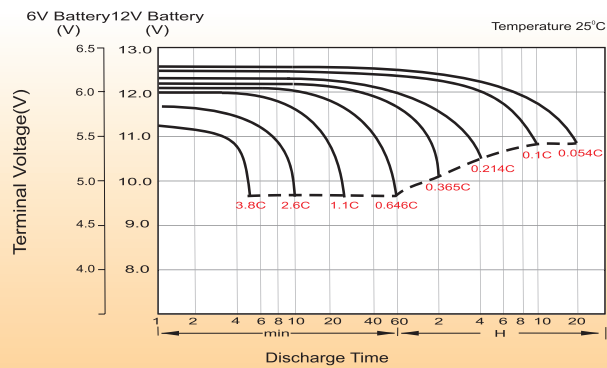
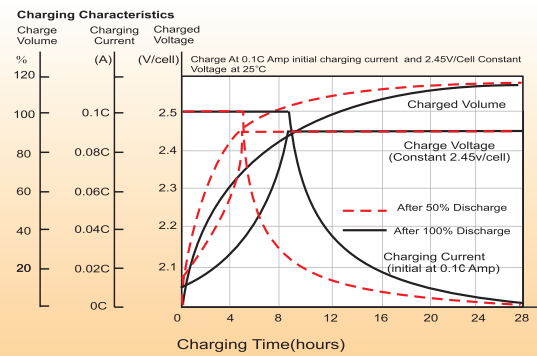
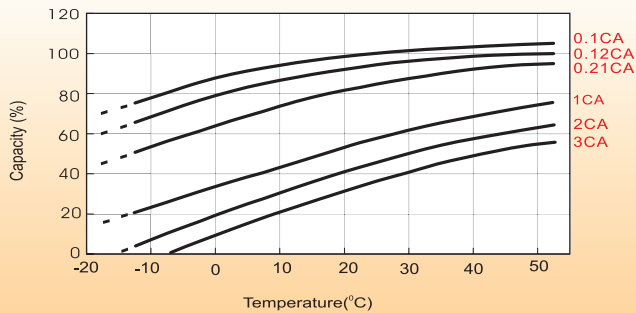
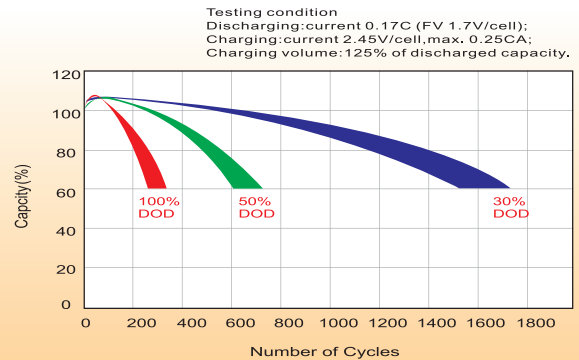
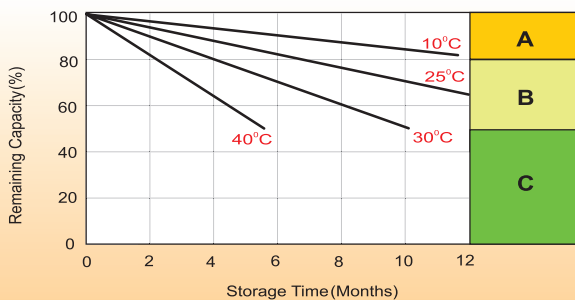
F.V/Time	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.85V/cell	80.5	67.8	59.2	42.6	33.8	27.5	17.1	13.3	10.8	8.76	7.64	6.23	5.19	2.92
1.80V/cell	102.9	81.9	70.0	50.3	39.4	30.8	18.6	14.3	11.5	9.40	8.19	6.61	5.50	2.95
1.75V/cell	113.1	89.4	75.3	52.2	40.8	32.2	19.3	14.6	11.8	9.65	8.42	6.73	5.56	2.98
1.70V/cell	123.2	95.5	79.1	54.3	42.5	33.2	20.1	15.0	12.1	9.89	8.59	6.82	5.61	3.03
1.65V/cell	133.0	101.5	84.1	57.3	43.5	34.3	20.6	15.6	12.5	10.2	8.78	6.93	5.73	3.07
1.60V/cell	144.4	108.6	89.5	60.5	45.4	35.5	21.3	16.1	12.9	10.5	8.97	6.99	5.79	3.09

**Constant Power Discharge (Watts/cell) at 25°C (77°F)**

F.V/Time	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.85V/cell	150.2	127.7	112.8	81.9	65.5	53.3	33.2	26.0	21.1	17.2	15.1	12.3	10.3	5.84
1.80V/cell	189.4	152.0	131.4	95.4	75.5	59.4	36.1	27.8	22.4	18.4	16.1	13.1	10.9	5.89
1.75V/cell	205.6	164.5	140.1	98.6	78.0	61.9	37.3	28.3	22.9	18.9	16.5	13.3	11.0	5.94
1.70V/cell	220.9	174.3	146.4	102.2	80.9	63.7	38.7	29.0	23.4	19.3	16.9	13.5	11.1	6.04
1.65V/cell	236.7	184.2	154.8	107.3	82.6	65.6	39.6	30.1	24.2	19.8	17.2	13.6	11.3	6.11
1.60V/cell	252.6	194.6	163.2	112.2	85.3	67.4	40.7	30.9	24.8	20.3	17.5	13.8	11.4	6.14

**AGM Battery (12V55AH) | B00408/BAT22-AGM-55A**
**Dimensions**
**T14 Terminal**

Unit: mm [inches]


**Discharge Characteristics**

**Charging Characteristics (cycle use)**

**Temperature Effects in Relation to Battery Capacity**

**Cycle Life in Relation to Depth of Discharge**

**Self Discharge Characteristics**


- A** No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** 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.
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.