



BB16-AGM

Specification

Nominal Voltage	6V	
Nominal Capacity(20HR)	400.0AH	
Dimension	Length	295±2mm (11.62 inches)
	Width	180±2mm (7.05 inches)
	Container Height	406±2mm (15.92 inches)
	Total Height (with Terminal)	425±2mm (16.71 inches)
Approx Weight	Approx 56.0 kg (121.0lbs)	
Terminal	T5 / DT	
Container Material	ABS	
Rated Capacity	420.0AH/4.2A	(100hr, 1.60V/cell, 25°C/77°F)
	400.0 AH/20.0A	(20hr, 1.80V/cell, 25°C/77°F)
	380. AH/38.0A	(10hr, 1.80V/cell, 25°C/77°F)
	350. AH/75.0A	(5hr, 1.75V/cell, 25°C/77°F)
	300. AH/100.0A	(3hr, 1.75V/cell, 25°C/77°F)
Max. Discharge Current	2800A (5s)	
Internal Resistance	Approx 2.0mΩ	
Operating Temp. Range	Discharge : -20~55°C (-4~131°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -20~50°C (-4~122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 82.0A. Voltage	
	7.2V~7.5V 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 affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	NPM series batteries may be stored for up to 10 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- ◆ Railway and marine systems
- ◆ Electric tools
- ◆ Vehicle in place of walking
- ◆ Lawn mowers
- ◆ Golf trolleys and golf cart
- ◆ Electric toys
- ◆ Portable power
- ◆ Wheelchairs
- ◆ Medical equipments
- ◆ Solar / wind power system



ISO9001 ISO14001

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

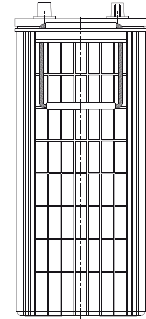
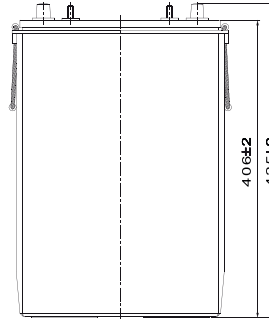
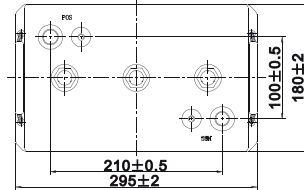
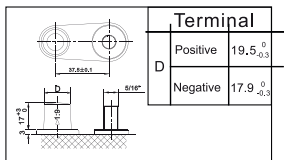
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	360.5	324.5	268.4	212.8	174.7	104.9	81.1	66.6	56.7	49.5	39.9	34.4	19.1
1.80V/cell	409.5	361.2	288.0	223.9	185.5	110.7	85.1	69.6	59.1	51.7	41.4	38.0	20.0
1.75V/cell	449.9	389.3	304.9	235.4	193.6	115.3	100.0	78.9	75.0	53.0	42.2	35.4	20.6
1.70V/cell	/	416.4	320.0	244.3	200.3	118.7	90.5	73.5	62.0	53.9	42.9	35.7	20.7
1.65V/cell	/	436.9	335.6	254.9	207.6	122.2	92.5	75.1	63.3	54.8	43.5	36.2	21.2
1.60V/cell	/	453.1	347.2	261.8	212.5	125.1	94.5	76.1	64.2	55.6	44.1	36.6	22.6

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

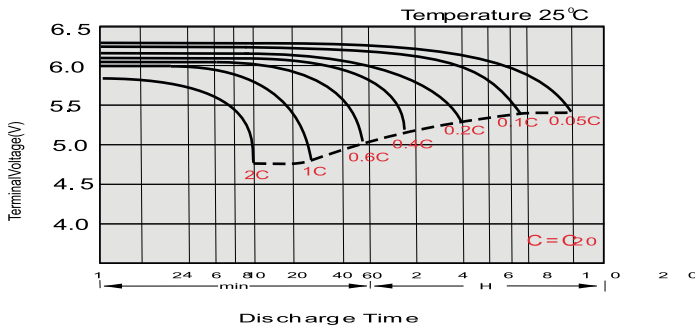
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	682.6	617.1	512.9	409.2	337.8	204.1	158.5	130.6	111.7	97.9	79.2	66.5	35.3
1.80V/cell	765.4	679.8	545.9	427.6	356.8	214.2	165.4	136.0	115.9	101.8	82.0	69.5	36.5
1.75V/cell	829.0	724.4	573.7	447.0	370.6	222.2	171.1	140.1	119.0	103.9	83.3	70.1	36.9
1.70V/cell	/	768.0	596.9	460.6	381.6	227.8	175.0	142.6	120.7	105.6	84.5	70.8	37.2
1.65V/cell	/	797.3	621.5	478.0	393.1	233.7	178.0	145.2	122.9	107.1	85.5	71.6	37.6
1.60V/cell	/	817.5	636.4	486.3	399.6	237.7	180.9	146.5	124.2	108.2	86.5	72.3	38.0

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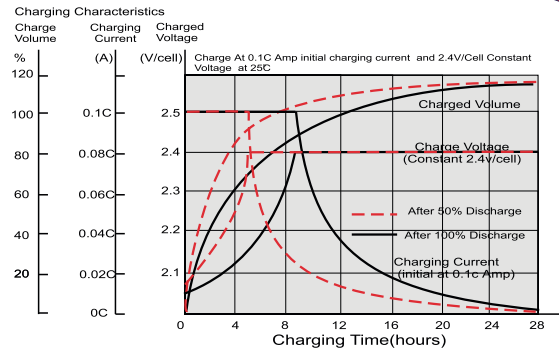
Dimensions



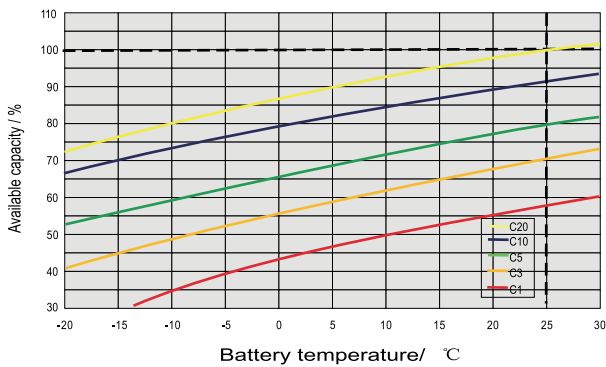
Discharge Characteristics



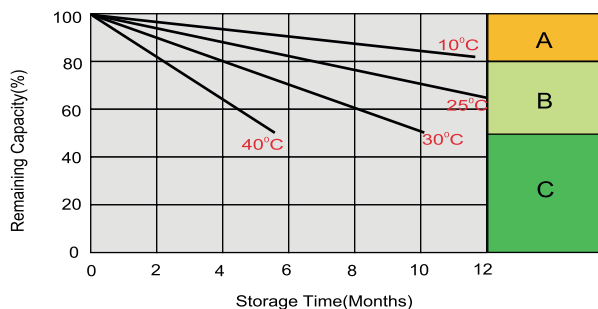
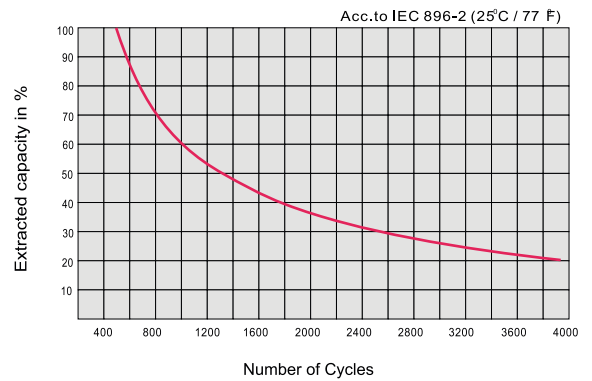
Charging Characteristics (cycle use)



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 volatge 2.25V/cell.
 2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
 3. Charged for 8~10hours 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.