



SB12-80(12V80AH)

Specification

Nominal Voltage

Nominal Capacity(10HR)

Dimension

Approx Weight
Terminal

Container Material

Rated Capacity

Max. Discharge Current
Internal Resistance

Operating Temp.Range

Nominal Operating Temp. Range

Cycle Use

Standby Use

Capacity affected by Temperature

Self Discharge

Life expectancy

12V

70.0AH

Length 348 ± 2 mm (13.70 inches)Width 167 ± 2 mm (6.57 inches)Container Height 178 ± 2 mm (7.01 inches)Total Height (with Terminal) 178 ± 2 mm (7.01 inches)

Approx 23.5 Kg (51.8 lbs)

Т6

ABS Standard ABS UL94 HB Optional ABS UL94 V0

75.0 AH/3.75A (20hr ,1.80 V/cell,25°C/77°F) 70.0 AH/7.00A (10hr,1.80 V/cell,25°C/77°F) 60.9 AH/12.2A (5hr,1.75 V/cell,25°C/77°F) 54.6 AH/18.2A (3hr,1.75 V/cell,25°C/77°F) 43.4 AH/43.4A (1hr,1.60 V/cell,25°C/77°F)

840A (5s)

Approx 6.6mΩ

Discharge : $-15\sim50^{\circ}\text{C}$ (5 $\sim122^{\circ}\text{F}$) Charge : $0\sim40^{\circ}\text{C}$ (32 $\sim104^{\circ}\text{F}$) Storage : $-15\sim40^{\circ}\text{C}$ (5 $\sim104^{\circ}\text{F}$)

 $25\pm3^{\circ}C(77\pm5^{\circ}F)$

Initial Charging Current less than 21.0 A. Voltage 14.4 V~15.0 V at 25°C (77°F) Temp. Coefficient -30 mV/°C

No limit on Initial Charging Current Voltage 13.5V~13.8V at 25° C(77°F)Temp. Coefficient -20mV/°C

 40°C
 (104°F)
 103%

 25°C
 (77°F)
 100%

 0°C
 (32°F)
 86%

SB 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.

8-12 years at 25°C with charge voltage 2.25V/cell.



Applications

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
 Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply



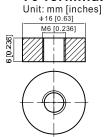
Comform to: IEC60896-21&22 and/or IEC61427

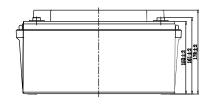
F.V/Time 10min 15min 20min 30 min 45min 1h 2h 3h 4h 5h 6h 8h 10h 20h 1.85V/cell 81.9 68.9 61.1 50.7 39.1 33.5 21.7 16.3 13.3 11.2 9.84 7.89 6.78 3.62 1.80V/cell 93.7 77.3 67.6 55.0 42.2 35.3 23.3 17.5 14.2 11.9 10.4 8.30 7.00 3.75 1.75V/cell 106.4 87.2 74.7 59.8 46.0 38.5 24.2 18.2 14.7 12.2 10.7 8.58 7.19 3.84 120.2 40.7 25.5 8 94 1.70V/cell 96.7 82.4 65.3 49 6 19.2 15.3 12.9 11.3 7.46 3 94 1.65V/cell 129.1 68.9 52.5 42.1 26.5 15.9 11.7 9.25 7.67 4.06 103.6 87.7 19.9 13.3 113.4 95.2 1.60V/cell 142.0 73.5 54.5 43 4 27 1 20.4 16.3 136 119 9 41 7.83 4.13

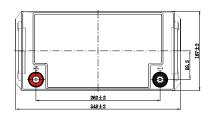
Constant Power Discharge (Watts/cell) at 25 °C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	152.9	129.9	116.4	97.6	76.0	65.2	42.5	32.1	26.4	22.2	19.5	15.7	13.6	7.24
1.80V/cell	172.9	143.9	126.8	104.4	81.3	68.5	45.4	34.3	27.9	23.5	20.6	16.5	14.0	7.48
1.75V/cell	193.3	160.3	138.8	112.5	87.8	74.3	47.0	35.5	28.7	23.9	21.2	17.0	14.3	7.66
1.70V/cell	213.4	175.3	152.1	122.2	94.3	78.4	49.4	37.3	30.0	25.3	22.2	17.7	14.9	7.85
1.65V/cell	227.1	186.3	160.6	127.9	98.9	80.5	51.0	38.6	31.0	26.0	22.9	18.3	15.3	8.09
1.60V/cell	244.2	200.7	172.6	135.5	102.2	82.5	52.0	39.4	31.6	26.5	23.3	18.6	15.6	8.21

Dimensions

T6 Terminal

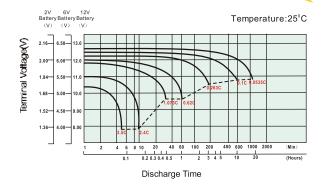




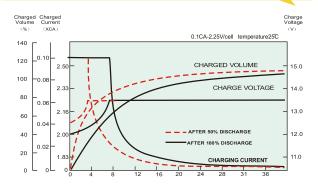




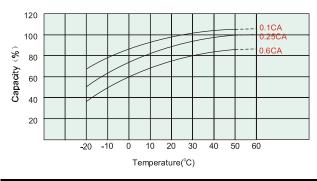
Discharge Characteristics



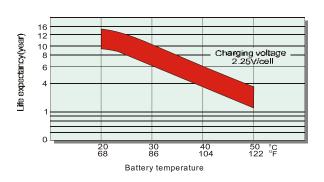
Float Charging Characteristics

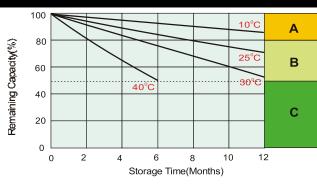


Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life





Self Discharge Characteristics

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

Supplementary charge required before use. Optional charging way as below:

1. Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.

2.Charged for above 3 days at limited current 0.25CA and constant volatge 2.45V/cell.

3.Charged for 8~10hours at limted current 0.05CA.

Supplementary charge may often fail to recover the capacity.

The battery should never be left standing till this is reached.