

S Series General Purpose Battery

S-12750 (12V80AH) AGM Sealed Lead Acid

Specifications	
Nominal Voltage	12V
Nominal Capacity	80 AH/4.01A (20 hr. to 1.80V/cell @ 77°F/25°C) 75 AH/7.50A (10 hr. to 1.80V/cell @ 77°F/25°C) 74 AH/9.20A (8 hr. to 1.75V/cell @ 77°F/25°C)
Length	10.24 in. (260±2mm)
Width	6.61 in. (168±2mm)
Total Height (with Terminal)	8.43 in. (214±2mm)
Approx. Weight	Approx. 50.7 lb. (23.0kg)
Hardware / Torque Rating	M6 / 35-48 in. lb.
Container Material	ABS
Max. Discharge Current	900A (5s)
Internal Resistance	Approx. 6.6mΩ
Operating Temp. Range	Discharge: 5° to 130°F (-15° to 55°C) Charge: 32° to 104°F (0° to 40°C) Storage: 5° to 104°F (-15° to 40°C)
Nominal Operating Temp.	77±5°F (25±3°C)
Cycle Use	Initial Charging Current less than 22.5A Voltage 14.4V to 15.0V at 77°F (25°C) Temp. Coefficient -30mV/°C
Stand by Use	Float Voltage: 13.5V at 77°F (25°C) Equalize Voltage: 14.1V at 77°F (25°C)
Capacity Affected by Temperature	104°F (40°C) 103% 77°F (25°C) 100% 32°F (0°C) 86%
Self Discharge	SBS S Series batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Applications

- Telecommunications
- Utility
- Industrial
- Deep cycle
- All purpose



S-12750 (12V80AH)

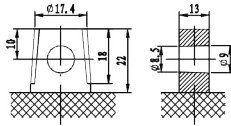
Constant Current Discharge (Amperes) at 77°F (25°C)														
F.V/Time	10 min	15 min	20 min	30 min	45 min	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	20 hr
1.85V/cell	87.8	73.8	65.5	54.3	41.9	35.9	23.2	17.5	14.3	12.0	10.5	8.46	7.27	3.88
1.80V/cell	100.4	82.9	72.4	59.0	45.2	37.8	25.0	18.8	15.2	12.8	11.2	8.90	7.50	4.01
1.75V/cell	114.0	93.4	80.0	64.1	49.3	41.3	26.0	19.5	15.7	13.1	11.5	9.20	7.70	4.11
1.70V/cell	128.8	103.6	88.3	70.0	53.1	43.7	27.3	20.5	16.4	13.8	12.1	9.58	8.00	4.22
1.65V/cell	138.3	111.0	93.9	73.8	56.2	45.2	28.3	21.4	17.1	14.2	12.5	9.91	8.22	4.35
1.60V/cell	152.2	121.5	102.1	78.8	58.4	46.5	29.1	21.9	17.5	14.6	12.8	10.1	8.39	4.42

Constant Power Discharge (Watts/cell) at 77°F (25°C)														
F.V/Time	10 min	15 min	20 min	30 min	45 min	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	20 hr
1.85V/cell	163.8	139.2	124.7	104.6	81.4	69.9	45.5	34.4	28.2	23.8	20.9	16.9	14.5	7.76
1.80V/cell	185.3	154.2	135.9	111.9	87.1	73.4	48.6	36.7	29.9	25.1	22.1	17.7	15.0	8.02
1.75V/cell	207.1	171.7	148.8	120.6	94.1	79.6	50.4	38.0	30.8	25.6	22.7	18.2	15.4	8.21
1.70V/cell	228.7	187.9	163.0	130.9	101.0	84.0	53.0	40.0	32.1	27.1	23.8	19.0	15.9	8.41
1.65V/cell	243.3	199.6	172.1	137.0	105.9	86.2	54.6	41.4	33.2	27.8	24.5	19.6	16.4	8.67
1.60V/cell	261.7	215.1	185.0	145.2	109.5	88.4	55.7	42.3	33.9	28.4	25.0	19.9	16.7	8.79

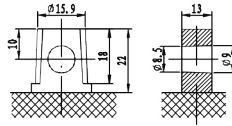
Dimensions

T14 Terminal

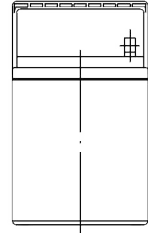
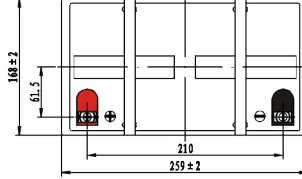
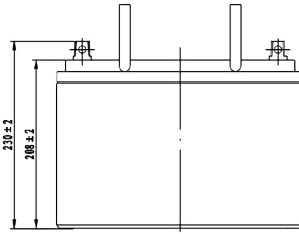
Unit: mm [inches]



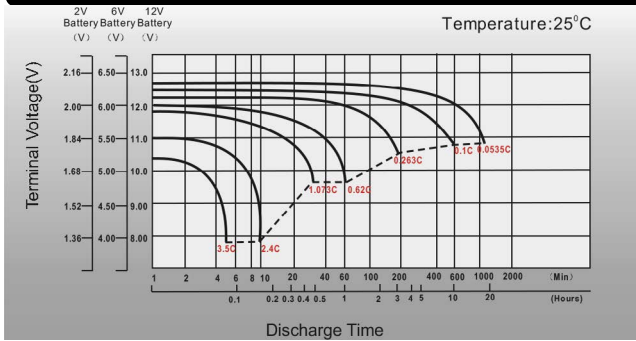
Positive



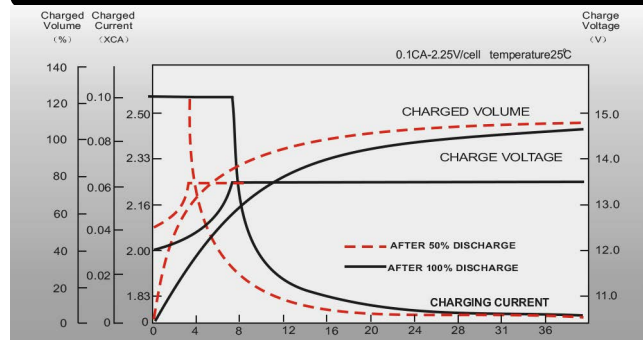
Negative



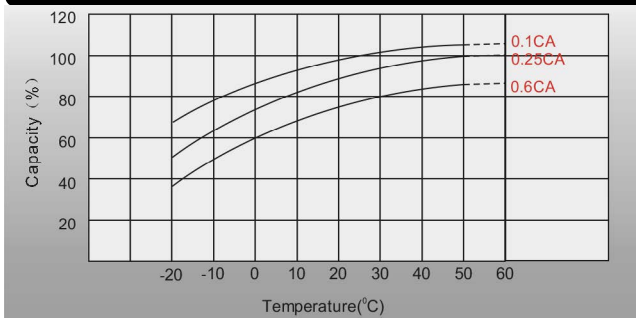
Discharge Characteristics



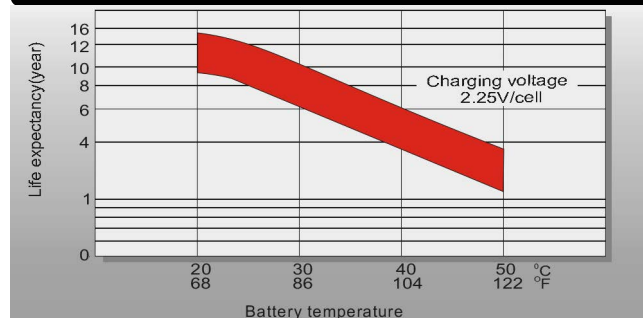
Float Charging Characteristics



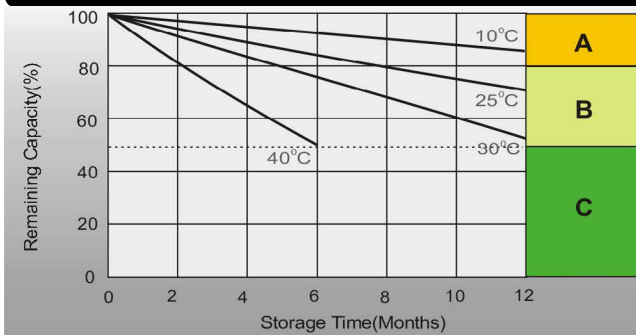
Temperature Effects in Relation to Battery Capacity



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.)
- 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.