

S Series General Purpose Battery

S-12900 (12V96AH) AGM Sealed Lead Acid

Specifications	
Nominal Voltage	12V
Nominal Capacity	96 AH/4.82A (20 hr. to 1.80V/cell @ 77°F/25°C) 90 AH/9.00A (10 hr. to 1.80V/cell @ 77°F/25°C) 88 AH/11.0A (8 hr. to 1.75V/cell @ 77°F/25°C)
Length	12.05 in. (306±2mm)
Width	6.61 in. (168±2mm)
Total Height (with Terminal)	9.06 in. (230±2mm)
Approx. Weight	Approx. 60.6 lb. (27.5kg)
Hardware / Torque Rating	M6 / 35-48 in. lb.
Container Material	ABS
Max. Discharge Current	1080A (5s)
Internal Resistance	Approx. 5.0mΩ
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 27.0A 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-12900 (12V96AH)

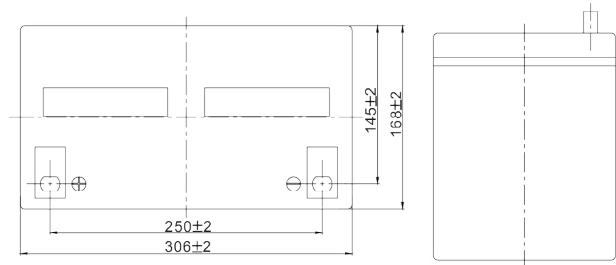
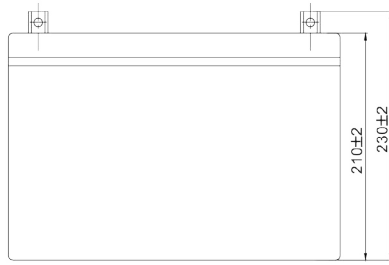
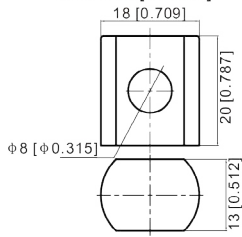
Constant Current Discharge (Amperes) at 77°F (25°C)														
F.V/Time	10 min	15 min	20 min	30 min	45 min	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	20 hr
1.85V/cell	105.3	88.6	78.6	65.2	50.3	43.0	27.9	20.9	17.2	14.4	12.6	10.1	8.72	4.65
1.80V/cell	120.5	99.4	86.9	70.8	54.2	45.4	29.9	22.5	18.2	15.3	13.4	10.7	9.00	4.82
1.75V/cell	136.8	112.1	96.0	76.9	59.2	49.5	31.1	23.4	18.9	15.7	13.8	11.0	9.24	4.94
1.70V/cell	154.6	124.4	106.0	84.0	63.7	52.4	32.8	24.6	19.7	16.6	14.5	11.5	9.60	5.06
1.65V/cell	166.0	133.1	112.7	88.6	67.4	54.2	34.0	25.6	20.5	17.1	15.0	11.9	9.87	5.22
1.60V/cell	182.6	145.8	122.5	94.5	70.1	55.8	34.9	26.3	20.9	17.5	15.3	12.1	10.1	5.30

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	196.6	167.0	149.7	125.5	97.7	83.8	54.7	41.2	33.9	28.6	25.1	20.2	17.4	9.31
1.80V/cell	222.4	185.1	163.1	134.2	104.5	88.0	58.4	44.1	35.8	30.2	26.5	21.2	18.0	9.62
1.75V/cell	248.5	206.0	178.5	144.7	112.9	95.5	60.5	45.6	36.9	30.8	27.2	21.9	18.4	9.85
1.70V/cell	274.4	225.4	195.6	157.1	121.2	100.8	63.6	48.0	38.5	32.5	28.5	22.8	19.1	10.1
1.65V/cell	292.0	239.5	206.5	164.4	127.1	103.5	65.5	49.7	39.9	33.4	29.4	23.5	19.6	10.4
1.60V/cell	314.0	258.1	221.9	174.3	131.4	106.0	66.9	50.7	40.7	34.1	29.9	23.9	20.0	10.6

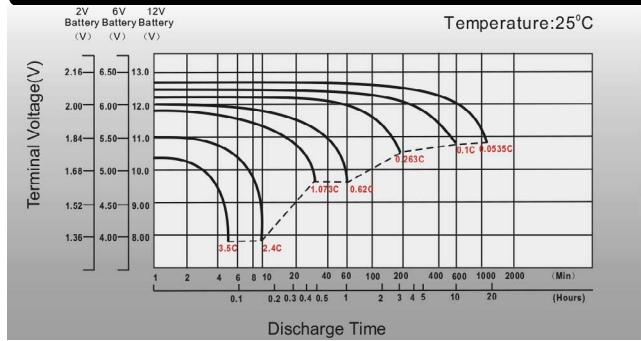
Dimensions

T9 Terminal

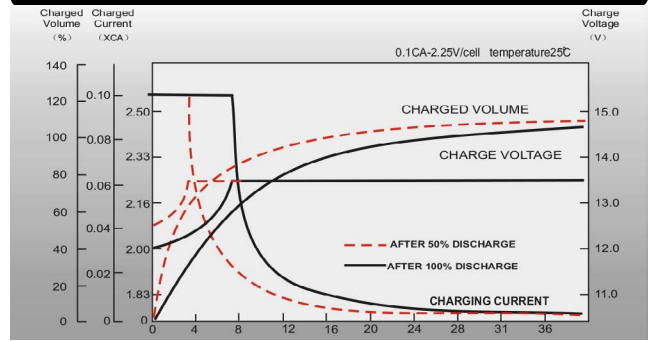
Unit: mm [inches]



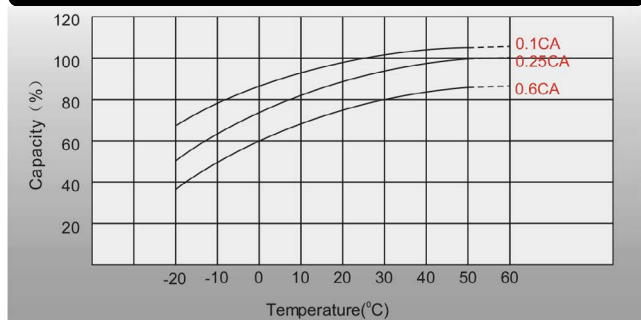
Discharge Characteristics



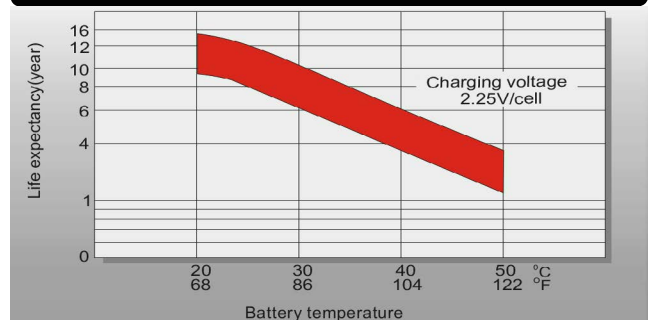
Float Charging Characteristics



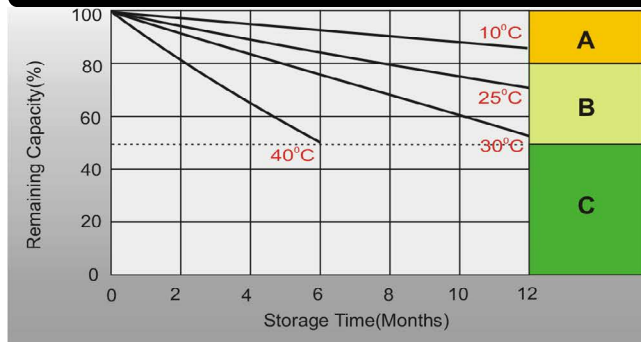
Temperature Effects in Relation to Battery Capacity



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 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.