

S Series General Purpose Battery

S-1275 (12V8AH) AGM Sealed Lead Acid

Specifications	
Nominal Voltage	12V
Nominal Capacity	8 AH/0.390A (20 hr. to 1.80V/cell @ 77°F/25°C) 7 AH/0.728A (10 hr. to 1.80V/cell @ 77°F/25°C) 7 AH/0.886A (8 hr. to 1.75V/cell @ 77°F/25°C)
Length	5.95 in. (151±2mm)
Width	2.56 in. (65±1mm)
Total Height (with Terminal)	3.90 in. (99±1mm)
Approx. Weight	Approx. 5.40 lb. (2.45kg)
Tab Terminal	T1
Container Material	ABS
Max. Discharge Current	117A (5s)
Internal Resistance	Approx. 18mΩ
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 2.34A 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-1275 (12V8AH)

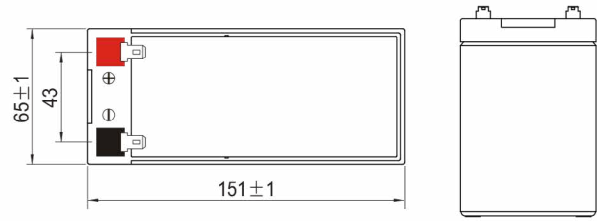
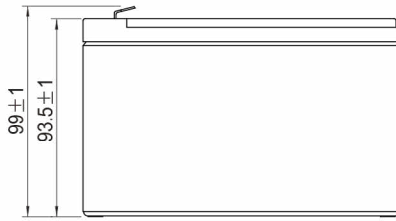
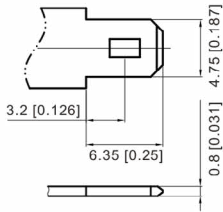
Constant Current Discharge (Amperes) at 77°F (25°C)															
F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	20 hr
1.85V/cell	17.9	13.0	11.1	9.4	6.88	5.03	4.01	2.38	1.78	1.44	1.22	1.06	0.842	0.697	0.383
1.80V/cell	21.4	15.2	12.5	10.2	7.4	5.35	4.27	2.50	1.85	1.51	1.27	1.10	0.873	0.728	0.390
1.75V/cell	24.0	16.6	13.4	10.8	7.7	5.56	4.43	2.57	1.90	1.54	1.30	1.12	0.886	0.739	0.398
1.70V/cell	26.1	17.7	14.2	11.3	8.0	5.71	4.52	2.63	1.94	1.57	1.32	1.14	0.905	0.749	0.403
1.65V/cell	28.4	18.8	14.9	11.8	8.3	5.89	4.64	2.68	1.98	1.60	1.34	1.16	0.917	0.757	0.406
1.60V/cell	29.9	19.7	15.4	12.1	8.5	6.04	4.74	2.74	2.02	1.63	1.37	1.18	0.932	0.768	0.413

Constant Power Discharge (Watts/cell) at 77°F (25°C)															
F.V/Time	5 min	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	33.7	24.8	21.4	18.3	13.4	9.9	7.90	4.71	3.54	2.88	2.45	2.12	1.69	1.41	0.773
1.80V/cell	40.1	28.8	24.0	19.8	14.4	10.4	8.38	4.93	3.67	3.00	2.53	2.20	1.75	1.46	0.785
1.75V/cell	44.4	31.2	25.4	20.7	14.9	10.8	8.68	5.07	3.75	3.05	2.58	2.23	1.77	1.48	0.797
1.70V/cell	47.7	32.9	26.7	21.5	15.3	11.0	8.78	5.14	3.81	3.09	2.61	2.26	1.79	1.49	0.800
1.65V/cell	50.9	34.2	27.6	22.1	15.7	11.3	8.93	5.18	3.84	3.12	2.63	2.28	1.80	1.49	0.802
1.60V/cell	52.4	35.1	28.0	22.4	15.9	11.4	9.06	5.27	3.90	3.16	2.66	2.30	1.82	1.50	0.812

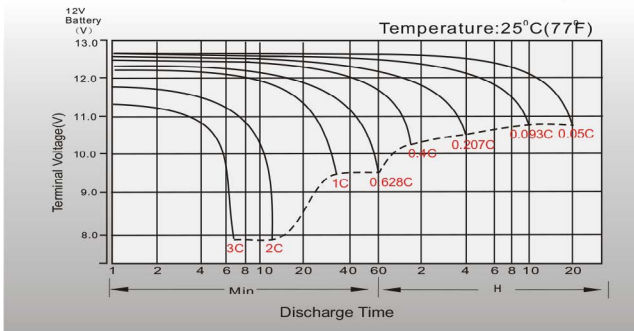
Dimensions

T1 Terminal

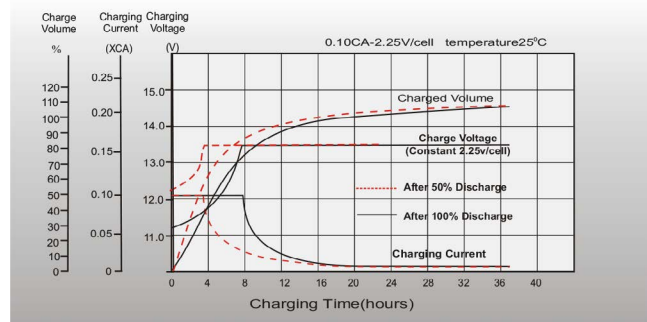
Unit: mm [inches]



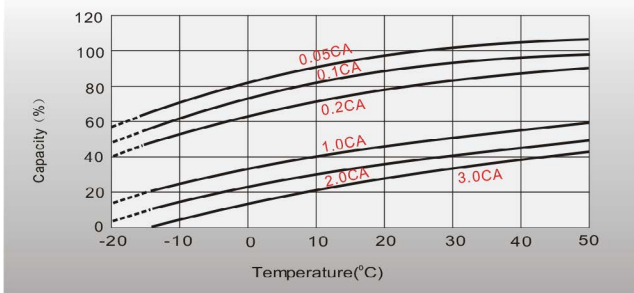
Discharge Characteristics



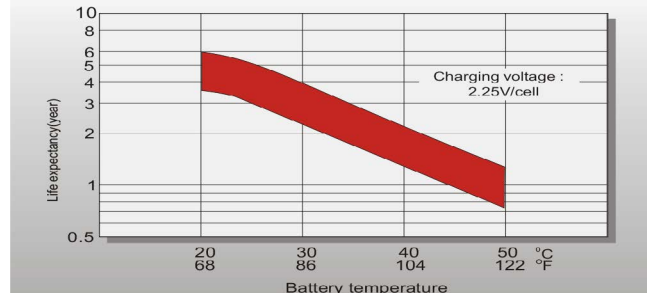
Charging Characteristics (cycle use)



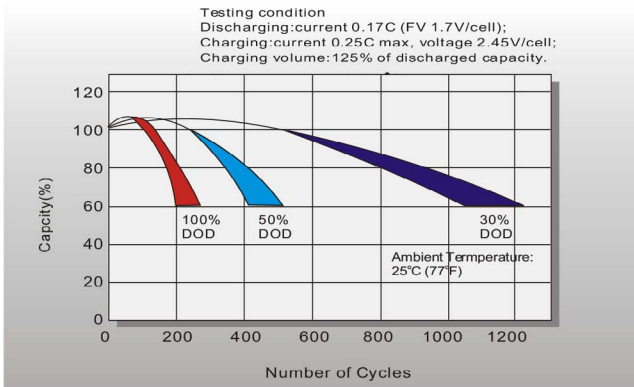
Temperature Effects in Relation to Battery Capacity



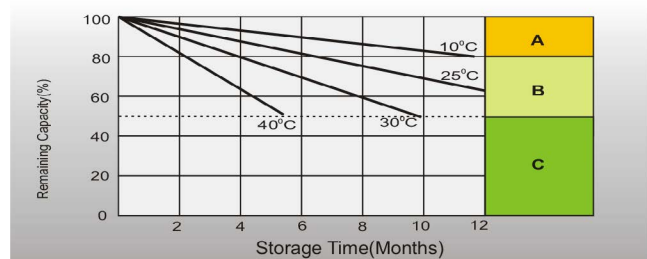
Effect of Temperature on Long Term Float Life



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.