

# S Series General Purpose Battery

S-12150 (12V14AH) AGM Sealed Lead Acid

## Specifications

<b>Nominal Voltage</b>	12V
<b>Nominal Capacity</b>	14 AH/0.70A (20 hr. to 1.80V/cell @ 77°F/25°C) 13 AH/1.30A (10 hr. to 1.80V/cell @ 77°F/25°C) 13 AH/1.63A (8 hr. to 1.75V/cell @ 77°F/25°C)
<b>Length</b>	5.95 in. (151±2mm)
<b>Width</b>	3.86 in. (98±1mm)
<b>Total Height (with Terminal)</b>	3.98 in. (101±2mm)
<b>Approx. Weight</b>	Approx. 8.93 lb. (4.05kg)
<b>Tab Terminal</b>	T2
<b>Container Material</b>	ABS
<b>Max. Discharge Current</b>	210A (5s)
<b>Internal Resistance</b>	Approx. 14mΩ
<b>Operating Temp. Range</b>	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)
<b>Nominal Operating Temp.</b>	77±5°F (25±3°C)
<b>Cycle Use</b>	Initial Charging Current less than 4.2A Voltage 14.4V to 15.0V at 77°F (25°C) Temp. Coefficient -30mV/°C
<b>Stand by Use</b>	Float Voltage: 13.5V at 77°F (25°C) Equalize Voltage: 14.1V at 77°F (25°C)
<b>Capacity Affected by Temperature</b>	104°F (40°C) 103% 77°F (25°C) 100% 32°F (0°C) 86%
<b>Self Discharge</b>	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



## 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	26.7	20.5	17.0	14.7	11.3	8.35	7.04	4.16	3.26	2.65	2.16	1.87	1.51	1.26	0.693
1.80V/cell	35.8	26.2	20.5	17.3	13.4	9.71	7.89	4.54	3.51	2.83	2.32	2.01	1.60	1.30	0.700
1.75V/cell	40.3	28.7	22.4	18.6	13.9	10.1	8.25	4.71	3.57	2.89	2.38	2.07	1.63	1.34	0.707
1.70V/cell	44.4	31.3	23.9	19.6	14.5	10.5	8.51	4.83	3.67	2.97	2.44	2.11	1.65	1.36	0.720
1.65V/cell	49.0	33.8	25.4	20.8	15.3	10.7	8.71	4.90	3.83	3.07	2.51	2.15	1.68	1.39	0.729
1.60V/cell	54.0	36.7	27.2	22.2	16.1	11.2	8.79	5.11	3.94	3.17	2.59	2.20	1.70	1.41	0.734

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

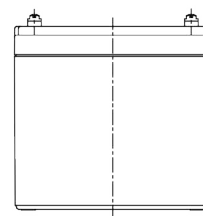
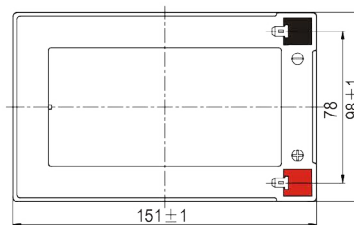
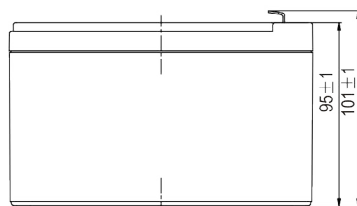
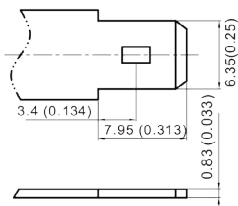
F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	20 hr
1.85V/cell	48.7	37.8	31.6	27.6	21.6	16.1	13.6	8.09	6.35	5.18	4.24	3.69	2.98	2.50	1.37
1.80V/cell	64.7	47.8	37.7	32.2	25.1	18.5	15.1	8.77	6.79	5.50	4.52	3.94	3.16	2.57	1.38
1.75V/cell	71.4	51.6	40.7	34.3	25.9	19.0	15.8	9.06	6.89	5.60	4.63	4.03	3.20	2.64	1.40
1.70V/cell	76.5	55.0	42.8	35.8	26.8	19.7	16.2	9.26	7.07	5.74	4.74	4.11	3.24	2.69	1.42
1.65V/cell	83.1	58.8	45.2	37.7	28.0	20.0	16.5	9.34	7.34	5.92	4.85	4.19	3.29	2.74	1.44
1.60V/cell	89.6	62.4	47.5	39.7	29.4	20.8	16.5	9.70	7.53	6.08	4.99	4.26	3.31	2.77	1.45

S-12150 (12V14AH)

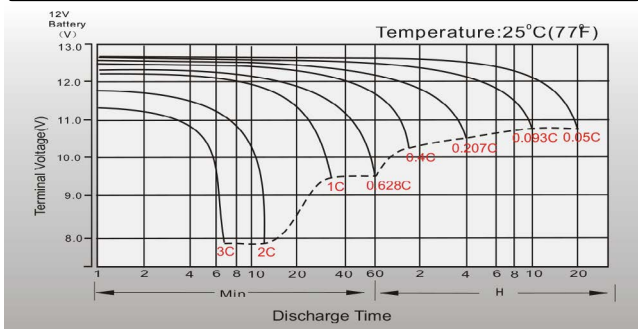
## Dimensions

### T2 Terminal

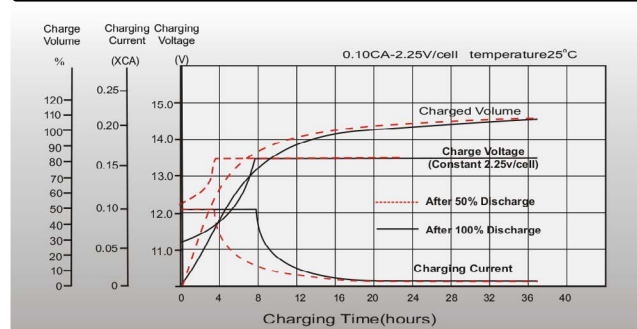
Unit: mm [inches]



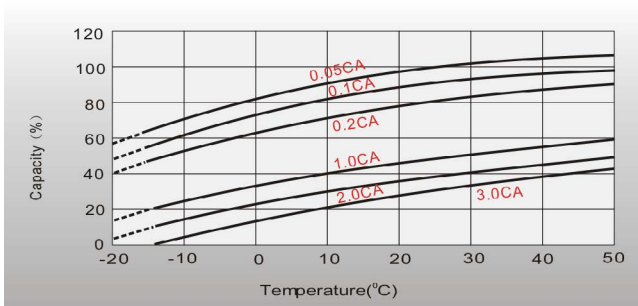
## Discharge Characteristics



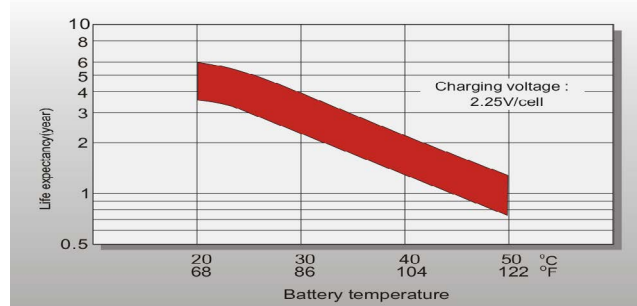
## Float Charging Characteristics



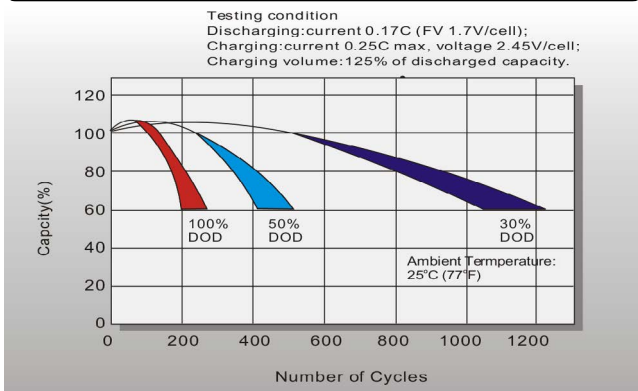
## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics

