

Series General Purpose Battery

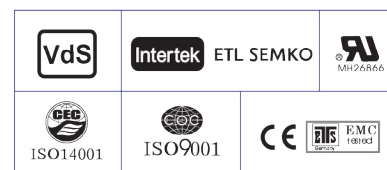
RT612 (6V12AH) AGM Sealed Lead Acid



Specifications	
Nominal Voltage	6V
Nominal Capacity	12 AH/0.583A (20 hr. to 1.80V/cell @ 77°F/25°C) 11 AH/1.10A (10 hr. to 1.80V/cell @ 77°F/25°C) 11 AH/1.31A (8 hr. to 1.75V/cell @ 77°F/25°C)
Length	5.95 in. (151±2mm)
Width	2.01 in. (51±1mm)
Total Height (with Terminal)	3.94 in. (100±2mm)
Approx. Weight	Approx. 4.30 lb. (1.95kg)
Tab Terminal	T1 / T2
Container Material	ABS
Max. Discharge Current	165A (5s)
Internal Resistance	Approx. 15.0mΩ
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 3.3A Voltage 7.2V to 7.5V at 77°F (25°C) Temp. Coefficient -15mV/°C
Stand by Use	Float Voltage: 6.75V at 77°F (25°C) Equalize Voltage: 7.05V 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



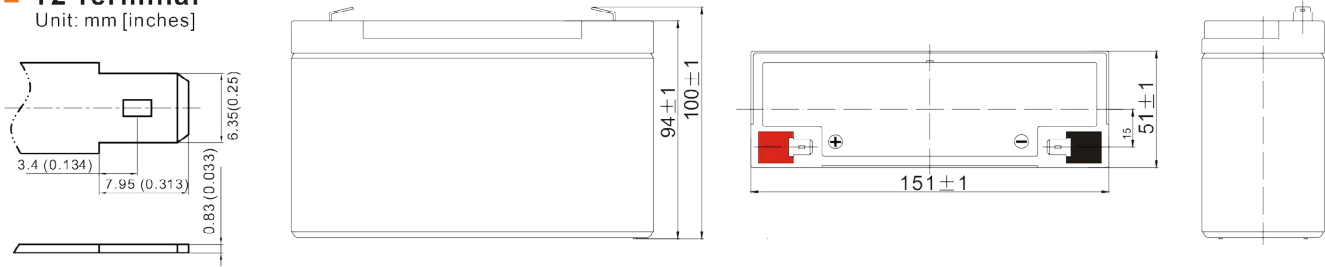
Constant Current Discharge (Amperes) at 77°F (25°C)														
F.V/Time	10 min	15 min	20 min	30 min	45 min	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	8 hr	10 hr	20 hr
1.85V/cell	14.2	11.8	10.1	8.24	6.23	5.23	3.34	2.64	2.14	1.73	1.52	1.22	1.04	0.578
1.80V/cell	18.1	14.3	11.9	9.73	7.25	5.86	3.64	2.84	2.29	1.86	1.63	1.29	1.10	0.583
1.75V/cell	19.9	15.6	12.8	10.1	7.53	6.13	3.78	2.90	2.34	1.91	1.67	1.31	1.11	0.589
1.70V/cell	21.7	16.7	13.5	10.5	7.83	6.32	3.93	2.98	2.40	1.96	1.71	1.33	1.12	0.600
1.65V/cell	23.4	17.7	14.3	11.1	8.02	6.53	4.04	3.10	2.48	2.01	1.75	1.35	1.15	0.607
1.60V/cell	25.4	19.0	15.3	11.7	8.36	6.77	4.17	3.20	2.56	2.08	1.78	1.37	1.16	0.611

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	26.7	22.5	19.4	16.0	12.2	10.27	6.60	5.25	4.26	3.46	3.04	2.44	2.09	1.164
1.80V/cell	33.7	26.8	22.6	18.6	14.1	11.4	7.15	5.61	4.53	3.69	3.25	2.59	2.21	1.174
1.75V/cell	36.5	29.0	24.1	19.2	14.5	11.9	7.39	5.69	4.62	3.78	3.33	2.62	2.23	1.183
1.70V/cell	38.9	30.5	25.1	19.8	15.0	12.3	7.67	5.84	4.73	3.87	3.39	2.66	2.25	1.205
1.65V/cell	41.6	32.2	26.5	20.7	15.2	12.6	7.84	6.06	4.87	3.96	3.46	2.69	2.29	1.219
1.60V/cell	44.1	33.9	27.9	21.8	15.8	13.0	8.06	6.22	5.01	4.08	3.52	2.71	2.32	1.223

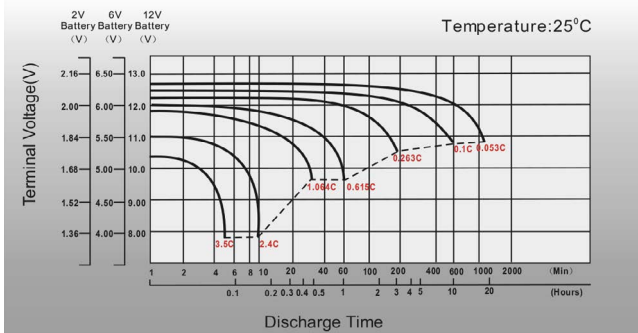
Dimensions

T2 Terminal

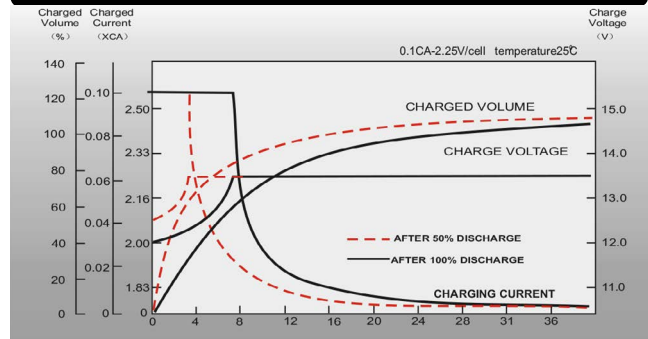
Unit: mm [inches]



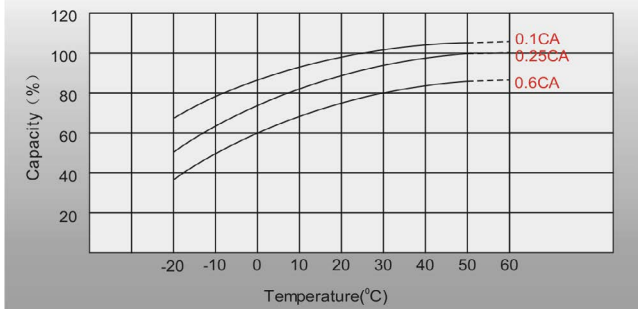
Discharge Characteristics



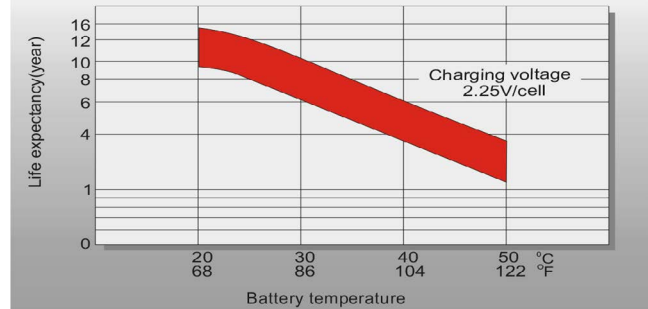
Float Charging Characteristics



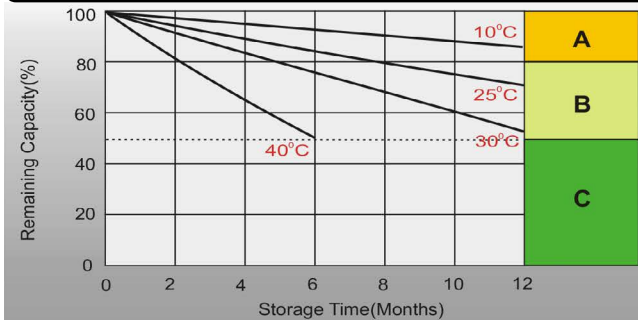
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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.