

S Series General Purpose Battery

S-6V220 (6V208AH) AGM Sealed Lead Acid

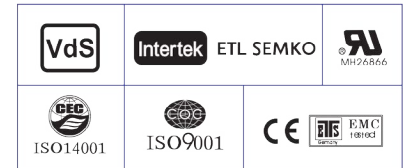
Specifications

Nominal Voltage	6V	
Nominal Capacity	208 AH/10.4A	(20 hr. to 1.80V/cell @ 77°F/25°C)
	200 AH/20.0A	(10 hr. to 1.80V/cell @ 77°F/25°C)
	190 AH/23.8A	(8 hr. to 1.75V/cell @ 77°F/25°C)
Length	12.05 in. (306±3mm)	
Width	6.61 in. (168±2mm)	
Total Height (with Terminal)	8.98 in. (228±3mm)	
Approx. Weight	Approx. 63.9 lb. (29.0kg)	
Hardware / Torque Rating	M8 / 98-130 in. lb.	
Container Material	ABS	
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx. 1.4mΩ	
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 60.0A 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



S-6V220 (6V208AH)

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	342.3	269.1	228.9	191.4	152.1	115.1	94.3	60.1	47.5	38.8	31.3	27.2	22.1	18.9	10.3
1.80V/cell	459.5	343.9	276.5	226.3	179.5	133.9	105.6	65.5	51.1	41.4	33.6	29.2	23.4	20.0	10.4
1.75V/cell	–	377.8	302.0	243.4	186.4	139.0	110.5	68.0	52.0	42.3	34.4	30.0	23.8	20.2	10.5
1.70V/cell	–	411.8	322.5	255.8	194.0	144.5	114.0	70.7	53.5	43.5	35.3	30.6	24.2	20.4	10.7
1.65V/cell	–	444.4	342.9	271.8	204.6	148.1	117.8	72.7	55.8	45.0	36.3	31.3	24.6	20.8	10.8
1.60V/cell	–	–	366.7	289.5	216.0	154.4	122.0	75.1	57.5	46.4	37.5	32.0	24.8	21.0	10.9

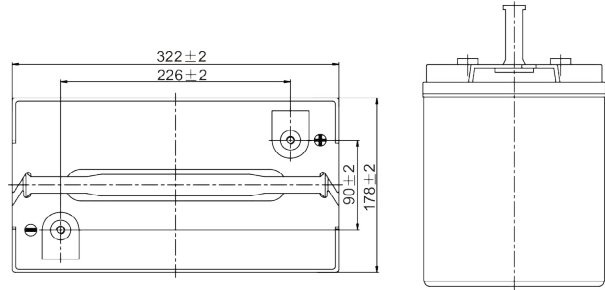
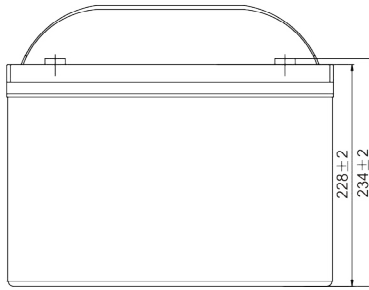
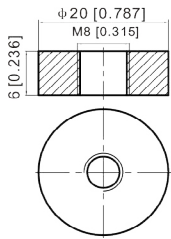
Constant Power Discharge (Watts/cell) at 77°F (25°C)

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	625.9	497.1	427.1	360.8	290.0	221.3	181.9	116.6	92.6	75.8	61.3	53.5	43.6	37.4	20.4
1.80V/cell	831.2	627.7	509.0	420.3	336.9	255.4	202.6	126.4	99.0	80.5	65.5	57.2	46.1	39.5	20.6
1.75V/cell	–	678.7	549.2	447.8	346.9	262.5	211.0	130.6	100.5	82.1	67.0	58.6	46.8	39.9	20.7
1.70V/cell	–	723.0	578.2	467.1	359.1	272.0	217.0	135.6	103.1	84.1	68.6	59.7	47.4	40.2	21.1
1.65V/cell	–	773.1	610.1	492.5	375.7	276.3	222.7	138.5	107.0	86.6	70.2	60.8	48.1	41.0	21.4
1.60V/cell	–	–	641.7	518.9	393.8	286.4	229.4	142.5	109.8	89.1	72.3	62.0	48.4	41.4	21.5

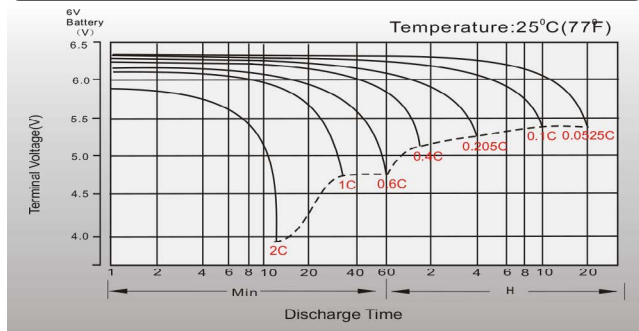
Dimensions

T8 Terminal

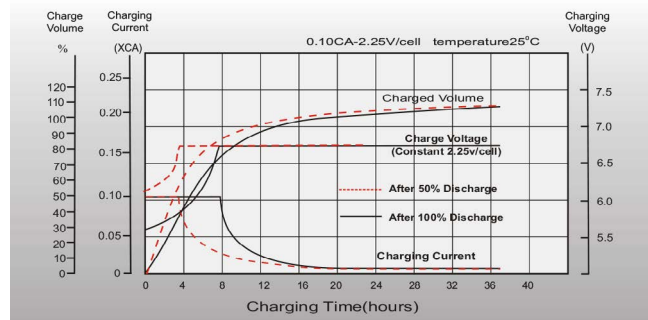
Unit: mm [inches]



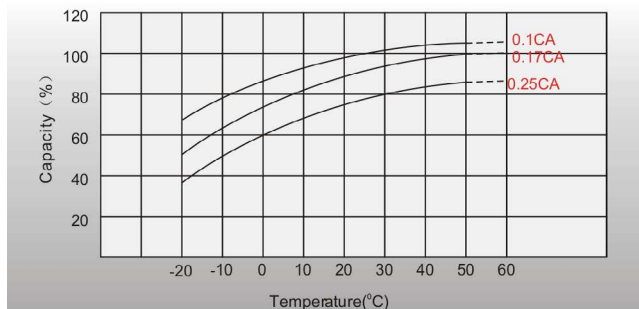
Discharge Characteristics



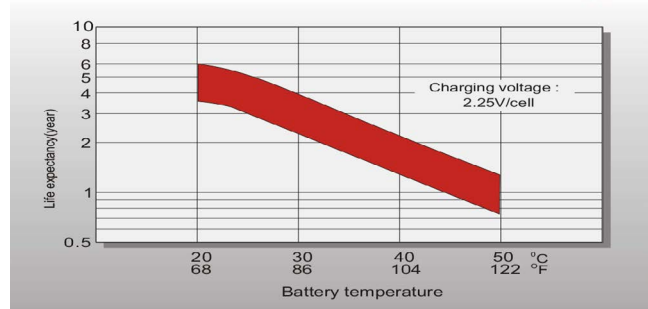
Float Charging Characteristics



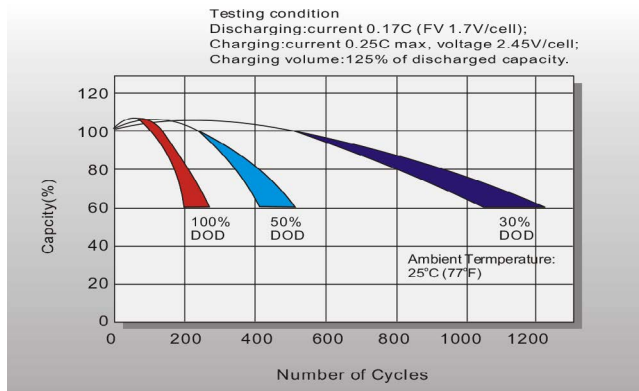
Temperature Effects in Relation to Battery Capacity



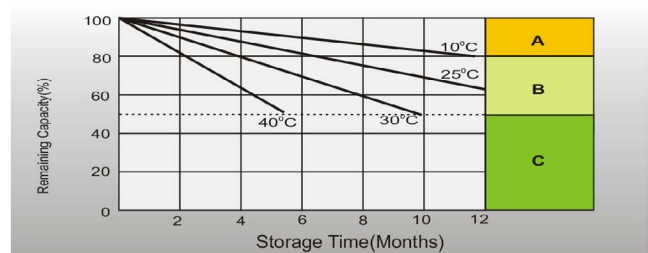
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



- 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.