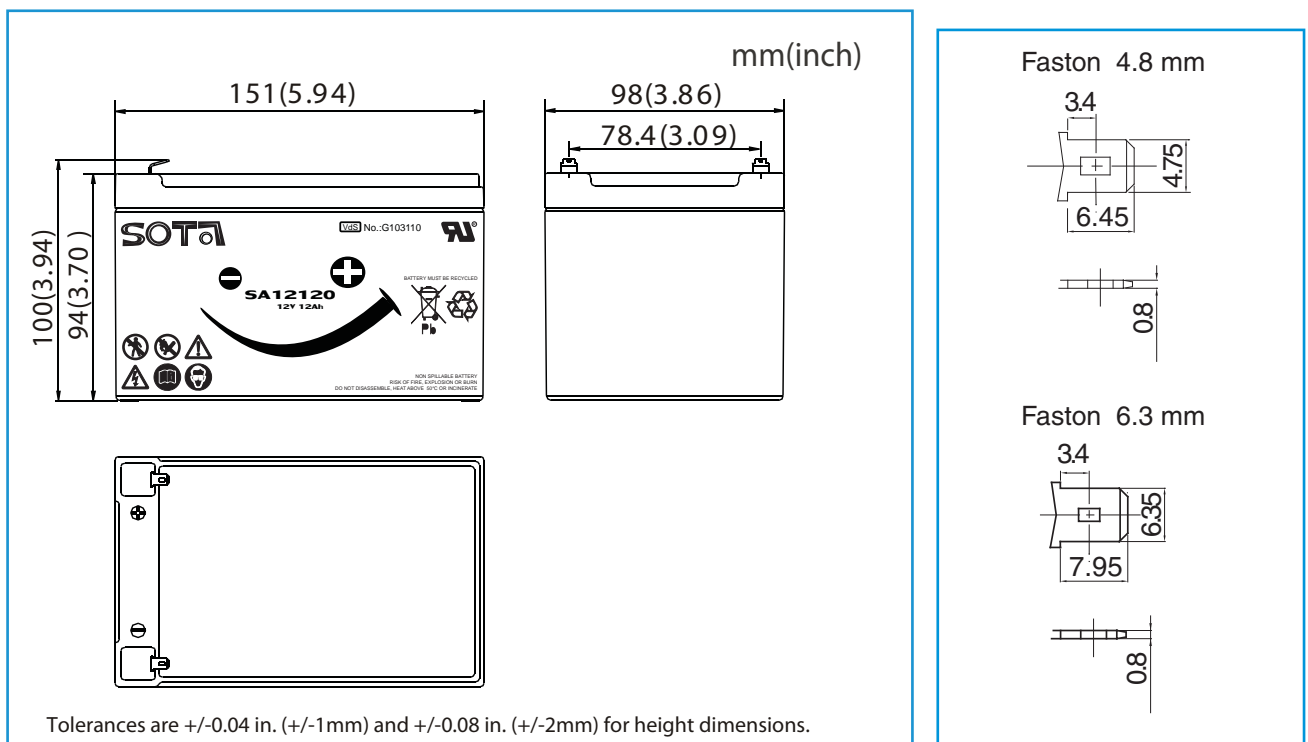


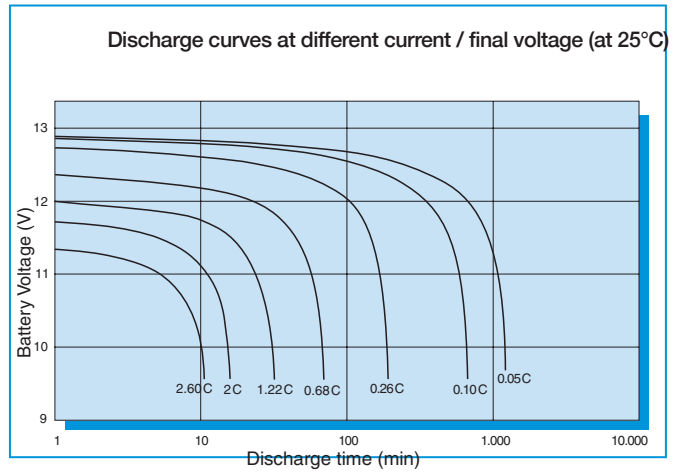
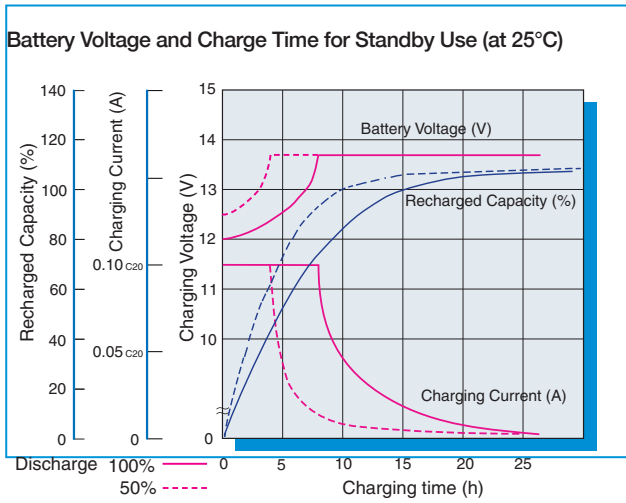
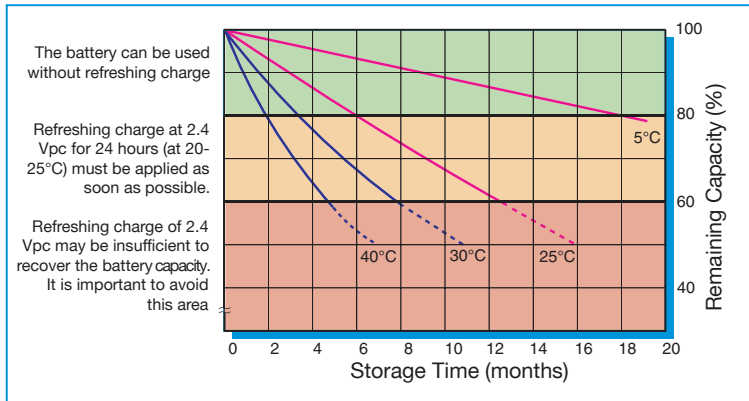
SA12120 is a general purpose application battery. Within the SA range SOTA offer 12V monoblocs at various amp hour capacities enable the right battery selection for each requirement.

12 Volt 12 Ah

Features	
Nominal Voltage	12 Volt
Nominal Capacity	12 Ah 20 hours rate to 1.75 Vpc at 25 °C
Float charging voltage	13.50 - 13.80 V/bloc at 25 °C
Boost charge voltage	14.40 - 15.00 V/bloc at 25 °C
Float voltage compensation	-18mV/°C
Maximum charging current	3 A
Case	ABS with HB flammability rate (according UL 94)
Internal resistance	14.8 mΩ in full charged condition
Weight	3.75 kg
Dimensions	L x W x H (TH): 151 x 98 x 94 (100)
Operative temperature range	-20 °C to 50 °C
Shelf life procedures	As batteries lose part of their capacity, during storage, due to self discharge. SOTA recommends SA range of batteries can be stored for 6 months at an ambient temperature of 20 and 25 °C (see attached graph on reverse). Longer storage requires a recharge. This should be carried out in line with SOTA recommended method; 2.4 V/cell for no longer than 24 hours at 20 °C



Capacity loss during storage at various temperatures



Costant Current discharge table (Amperes)

end voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hour	3 hour	5 hour	10 hour	20 hour
9.60 V	36.3	25.7	19.6	15.8	11.8	8.69	6.95	3.99	2.94	1.89	1.05	0.58
9.90 V	35.3	25.0	19.2	15.5	11.6	8.56	6.90	3.94	2.92	1.88	1.04	0.58
10.02 V	34.4	24.5	18.9	15.4	11.5	8.46	6.81	3.91	2.90	1.87	1.04	0.57
10.20 V	33.1	23.9	18.7	15.2	11.3	8.36	6.71	3.85	2.86	1.85	1.03	0.57
10.50 V	31.5	22.7	17.7	14.6	10.9	8.16	6.54	3.77	2.82	1.82	1.02	0.56
10.80 V	29.2	21.3	16.5	13.7	10.4	7.78	6.29	3.66	2.66	1.73	0.98	0.55

Costant Power discharge table (Watts per bloc)

end voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hour	3 hour	5 hour	10 hour	20 hour
9.60 V	363	263	205	169	128	96.6	78.2	45.4	33.8	21.8	12.2	6.73
9.90 V	355	259	202	166	127	95.6	77.9	45.0	33.6	21.8	12.2	6.73
10.02 V	346	253	200	165	126	94.5	76.9	44.8	33.5	21.7	12.1	6.72
10.20 V	334	247	198	164	124	93.5	75.9	44.1	33.1	21.6	12.1	6.70
10.50 V	318	236	189	157	121	91.6	74.2	43.4	32.8	21.4	12.0	6.65
10.80 V	297	222	177	149	115	87.8	71.7	42.3	31.1	20.4	11.6	6.52