

▶ AGM Standard Batteries



Solutions for the toughest requirements

► TRIATHLON® AGM ST

The TRIATHLON® series ST in AGM technology stands for the highest requirements. AGM standard batteries are the solution for highly demanding applications.

They are universally suitable for a wide range of applications.

The high quality standard is maintained by:

- ✓ Certification according to ISO 9001 and ISO 14001
- ✓ IEC 60896 Parts 21 & 22
- ✓ Extensive final testing of the products before delivery

BATTERY FEATURES

- Sealed batteries VLRA (Valve Regulate Lead Acid) - the electrolyte is fixed in a glass fleece
- Excellent high current capability due to low internal resistance
- High power density, low space requirement
- Maintenance-free
- Safety valve protects against excessive overpressure
- Low self-discharge rate: Up to 9 months storable under normal conditions at + 20 °C
- Service life according to EUROBAT up to 5 years in standby parallel operation
- Different installation positions in vertical or horizontal position are possible
- No transport restrictions (according to IATA, DGR, set A67)

► Applications:

- Uninterruptible power supply
- Safety lighting
- Stationary backup power plants in power stations and substations
- Telecommunications
- Switchgears
- Automation technology, robot systems
- Burglary and fire alarm systems
- Wireless and radio systems
- Telemetry systems
- Signalling systems



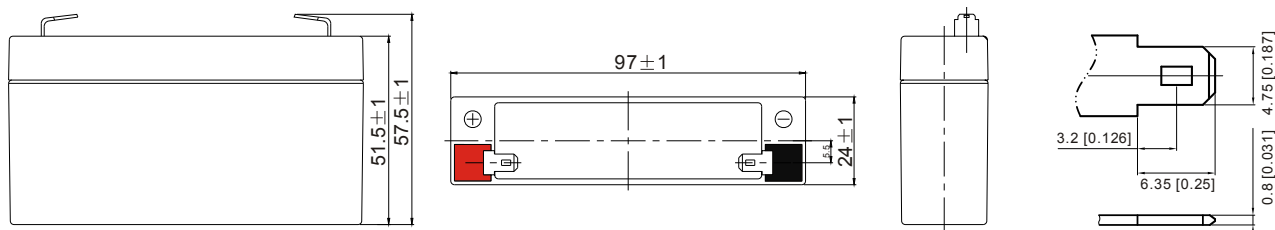
SERVICE LIFE CATEGORY 5 YEARS

Battery type		Nominal voltage	Nominal capacity C ₂₀	Length (L)	Width (W)	Height (H)	Typical weight *	Internal resistance	max. discharge current	Connection
		V	Ah	max. mm	max. mm	max. mm	kg	mOhm	A	
ST 06001.2		6	1.2	97	24	58	0.30	65.0	18.0	T1
ST 06004.5		6	4.5	70	47	106	0.80	25.0	67.5	T1
ST 06007		6	7.0	151	34	100	1.10	15.0	105.0	T1
ST 06012	VdS	6	12.0	151	51	100	2.00	15.0	180.0	T1
ST 12000.8		12	0.8	96	25	62	0.35	150.0	12.0	AMP
ST 12001.2	VdS	12	1.2	97	44	58	0.60	90.0	18.0	T1
ST 12002.1	VdS	12	2.1	178	35	66	1.00	70.0	31.5	T1
ST 12003.4	VdS	12	3.4	134	67	67	1.35	45.0	48.0	T1
ST 12004 L		12	4.0	195	47	76	1.60	45.0	60.0	T1
ST 12006		12	5.8	90	70	107	1.80	25.0	87.0	T1
ST 12007.2	VdS	12	7.2	152	66	100	2.35	18.0	108.0	T1/T2
ST 12009		12	8.5	151	65	99	2.45	18.0	127.5	T2
ST 12012	VdS	12	12.0	151	98	101	3.50	14.0	180.0	T1/T2
ST 12018	VdS	12	18.0	182	77	168	5.78	16.0	270.0	T12
ST 12026	VdS	12	26.0	167	175	125	8.00	14.0	390.0	T12

* Weight indications ± 5 %

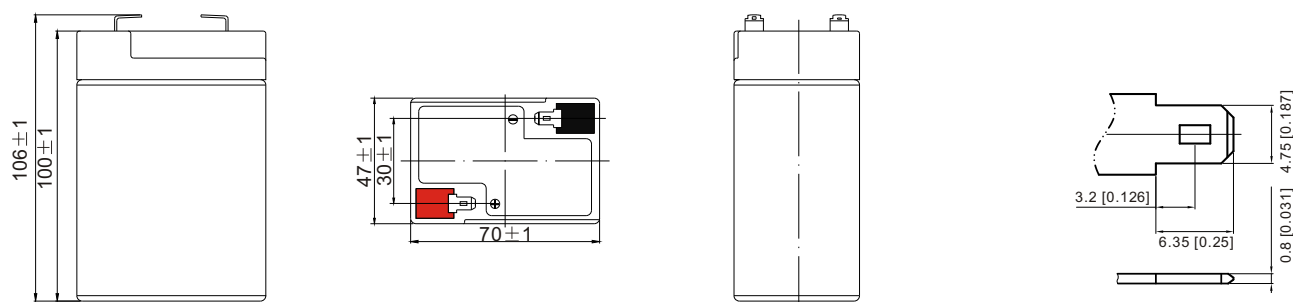
ST 06001.2

Connection T1



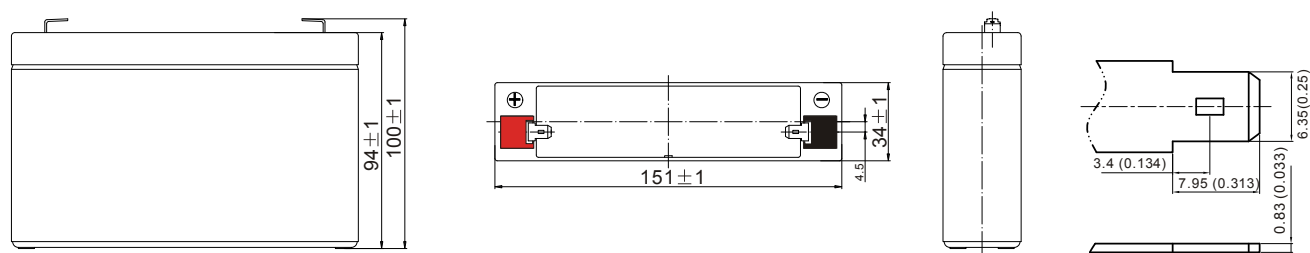
ST 06004.5

Connection T1



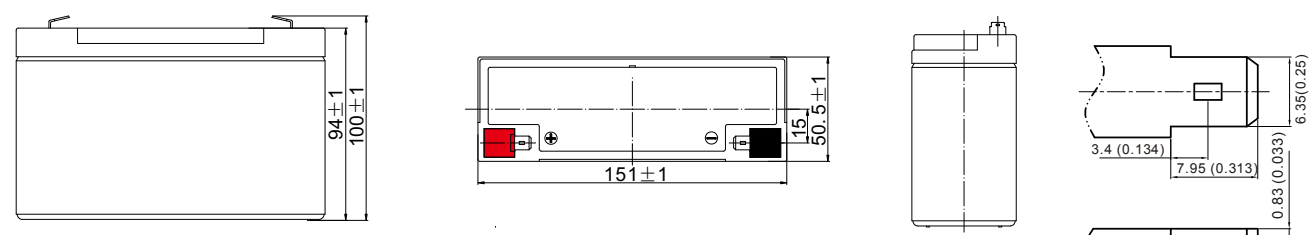
ST 06007

Connection T1



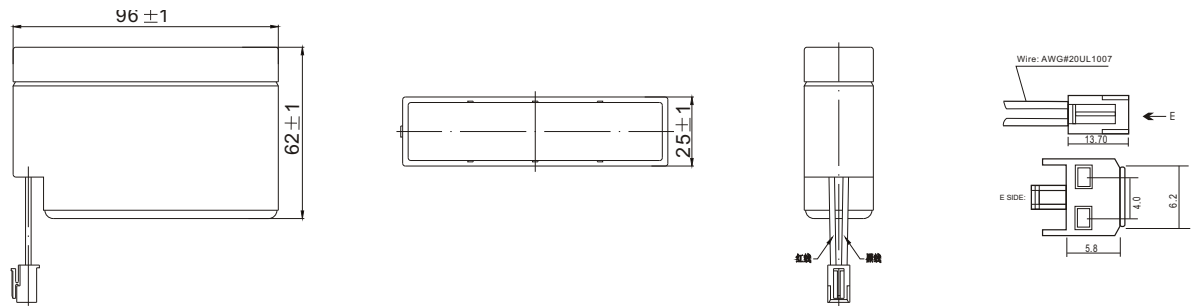
ST 06012

Connection T1



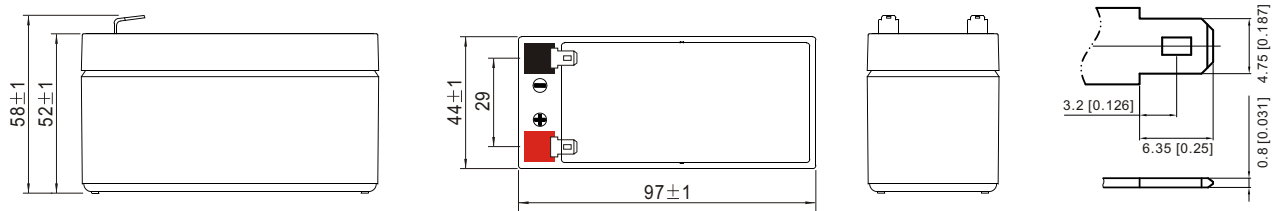
ST 12000.8

Connection AMP



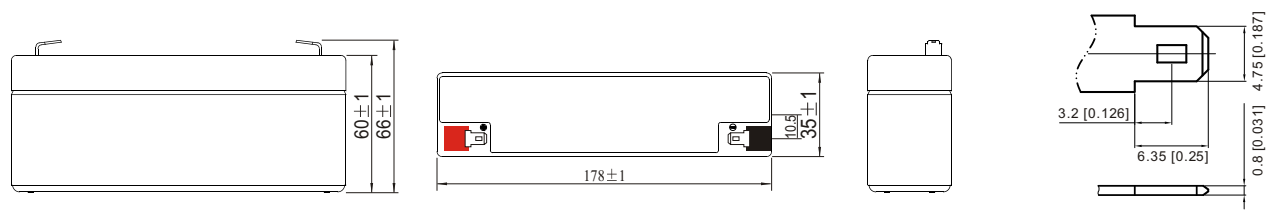
ST 12001.2

Connection T1



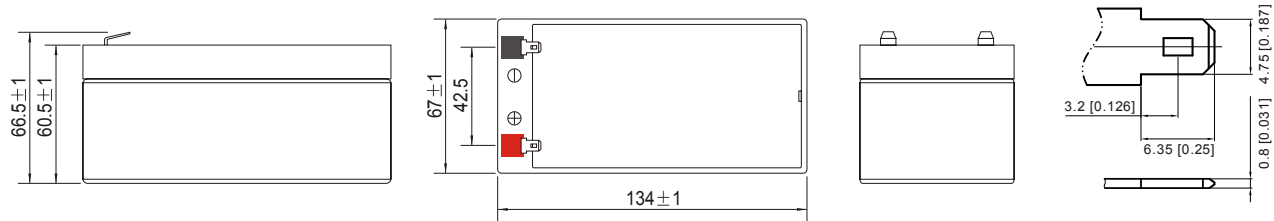
ST 12002.1

Connection T1



ST 12003.4

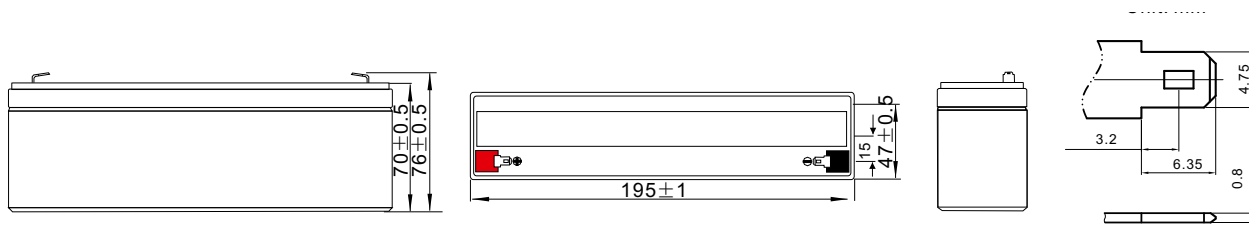
Connection T1



TRIATHLON® AGM ST Technical Drawings

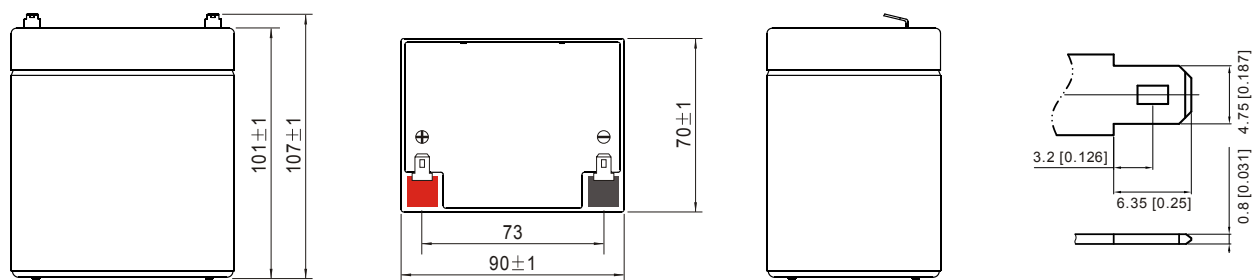
ST 12004 L

Connection T1



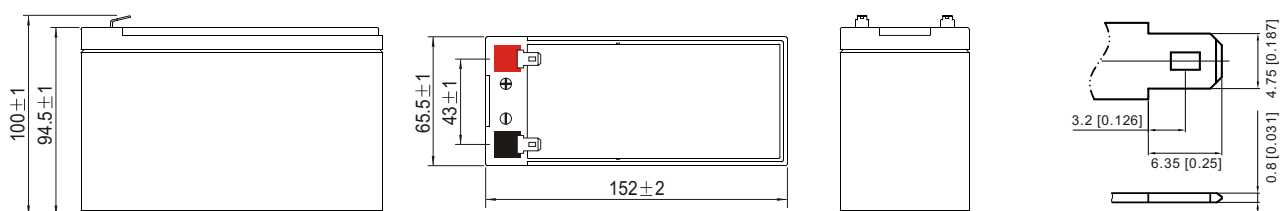
ST 12006

Connection T1



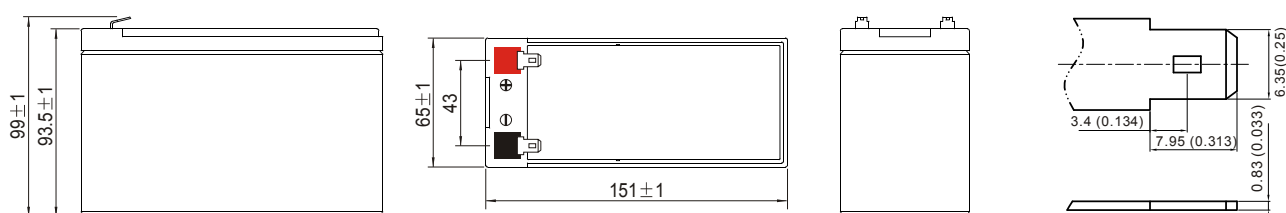
ST 12007.2

Connection T1/T2



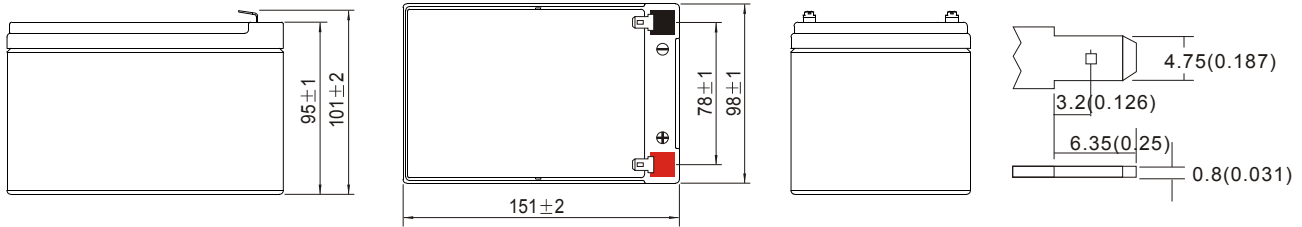
ST 12009

Connection T2



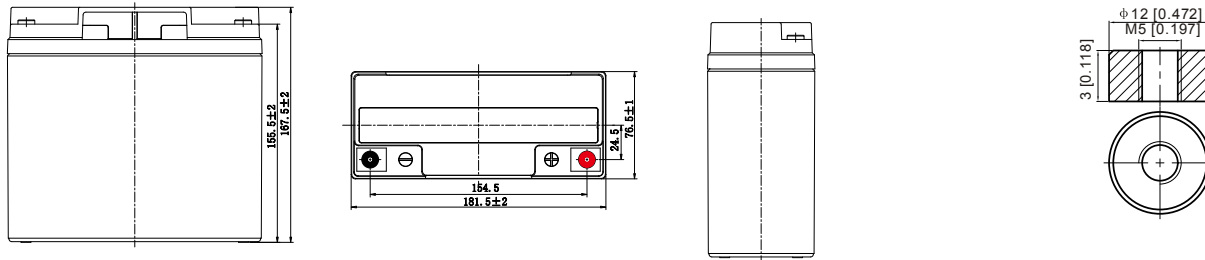
ST 12012

Connection T1/T2



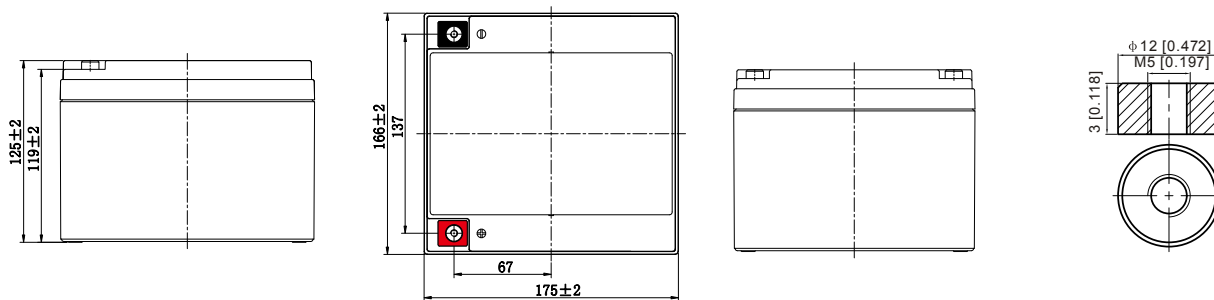
ST 12018

Connection T12



ST 12026

Connection T12



TRIATHLON® AGM ST Discharge data in Amperes

1.85 V/C - Discharge data in Amperes at 25 °C

Type designation	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	3.73	2.28	1.78	1.48	1.10	0.81	0.71	0.52	0.41	0.30	0.24	0.20	0.172	0.136	0.111	0.059
ST06004.5	12.80	8.74	6.97	5.67	4.19	3.08	2.53	1.87	1.49	1.09	0.88	0.75	0.646	0.509	0.416	0.220
ST06007	17.00	12.50	9.90	8.10	6.12	4.64	3.91	2.90	2.38	1.72	1.36	1.16	0.990	0.780	0.637	0.343
ST06012	30.60	22.70	18.10	14.80	11.00	8.07	6.59	4.81	3.82	2.91	2.34	1.99	1.700	1.340	1.090	0.587
ST12000.8	1.54	1.07	0.88	0.77	0.61	0.47	0.39	0.29	0.24	0.18	0.15	0.13	0.109	0.086	0.072	0.040
ST12001.2	3.73	2.28	1.78	1.48	1.10	0.81	0.71	0.52	0.41	0.30	0.24	0.20	0.172	0.136	0.111	0.059
ST12002.1	6.10	4.48	3.56	2.90	2.16	1.62	1.32	0.99	0.79	0.57	0.45	0.39	0.329	0.259	0.211	0.113
ST12003.4	10.60	7.36	5.72	4.66	3.43	2.47	1.94	1.45	1.15	0.85	0.68	0.59	0.502	0.396	0.323	0.171
ST12004L	7.68	5.35	4.42	3.83	3.07	2.36	1.93	1.43	1.18	0.90	0.74	0.63	0.543	0.432	0.359	0.198
ST12006	17.90	12.70	9.79	7.96	5.76	4.14	3.33	2.40	1.85	1.33	1.06	0.91	0.775	0.610	0.499	0.264
ST12007.2	16.60	12.70	10.20	8.86	6.52	4.78	3.82	2.83	2.21	1.67	1.37	1.15	1.000	0.796	0.658	0.355
ST12009	18.60	13.20	11.10	9.42	7.04	5.23	4.22	3.09	2.52	1.87	1.52	1.29	1.120	0.884	0.730	0.403
ST12012	30.60	22.70	18.10	14.80	11.00	8.07	6.59	4.81	3.82	2.91	2.34	1.99	1.700	1.340	1.090	0.587
ST12018	49.10	33.70	26.20	21.90	16.59	12.27	10.17	7.38	5.99	4.37	3.52	3.02	2.580	2.030	1.664	0.880
ST12026	69.90	51.10	38.80	33.10	24.80	18.20	14.50	10.80	8.56	6.18	4.92	4.25	3.640	2.870	2.400	1.270

1.80 V/C - Discharge data in Amperes at 25 °C

Type designation	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	4.01	2.42	1.86	1.54	1.14	0.84	0.73	0.53	0.42	0.30	0.24	0.20	0.175	0.138	0.112	0.059
ST06004.5	13.70	9.27	7.31	5.89	4.32	3.16	2.60	1.91	1.51	1.11	0.89	0.76	0.656	0.516	0.421	0.223
ST06007	18.50	13.20	10.30	8.35	6.28	4.73	3.99	2.95	2.41	1.74	1.38	1.18	1.010	0.790	0.644	0.347
ST06012	33.20	23.90	18.80	15.20	11.30	8.23	6.72	4.90	3.88	2.95	2.37	2.01	1.720	1.350	1.100	0.594
ST12000.8	1.89	1.28	1.02	0.87	0.68	0.52	0.42	0.31	0.25	0.19	0.16	0.13	0.113	0.090	0.074	0.040
ST12001.2	4.01	2.42	1.86	1.54	1.14	0.84	0.73	0.53	0.42	0.30	0.24	0.20	0.175	0.138	0.112	0.059
ST12002.1	6.61	4.71	3.70	2.99	2.21	1.65	1.35	1.01	0.80	0.58	0.46	0.39	0.334	0.262	0.214	0.114
ST12003.4	11.40	7.80	6.01	4.84	3.53	2.54	1.99	1.48	1.18	0.86	0.69	0.60	0.510	0.401	0.328	0.173
ST12004L	9.44	6.39	5.12	4.33	3.40	2.58	2.08	1.53	1.25	0.95	0.78	0.65	0.567	0.448	0.372	0.200
ST12006	19.20	13.40	10.30	8.28	5.94	4.25	3.41	2.45	1.88	1.36	1.08	0.92	0.787	0.619	0.506	0.267
ST12007.2	19.80	14.00	11.30	9.52	7.00	5.07	4.06	2.90	2.32	1.72	1.41	1.19	1.030	0.814	0.672	0.360
ST12009	22.20	15.20	12.40	10.40	7.70	5.63	4.54	3.31	2.69	1.99	1.60	1.36	1.170	0.932	0.769	0.412
ST12012	33.20	23.90	18.80	15.20	11.30	8.23	6.72	4.90	3.88	2.95	2.37	2.01	1.720	1.350	1.100	0.594
ST12018	52.80	35.70	27.50	22.70	17.10	12.60	10.42	7.54	6.10	4.44	3.57	3.06	2.620	2.060	1.686	0.890
ST12026	75.10	54.20	40.70	34.40	25.60	18.70	14.80	11.00	8.72	6.28	5.00	4.31	3.700	2.910	2.440	1.290

1.75 V/C - Discharge data in Amperes at 25 °C

Type designation	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	4.23	2.52	1.92	1.59	1.17	0.85	0.75	0.54	0.43	0.31	0.24	0.21	0.177	0.139	0.113	0.060
ST06004.5	14.40	9.64	7.55	6.06	4.43	3.23	2.65	1.95	1.54	1.12	0.90	0.77	0.663	0.522	0.426	0.225
ST06007	19.90	13.80	10.70	8.60	6.43	4.83	4.06	3.00	2.45	1.77	1.40	1.19	1.020	0.800	0.653	0.350
ST06012	35.90	25.10	19.50	15.70	11.50	8.39	6.84	4.98	3.94	3.00	2.40	2.04	1.740	1.370	1.120	0.600
ST12000.8	2.24	1.44	1.13	0.94	0.73	0.55	0.44	0.32	0.26	0.20	0.16	0.13	0.116	0.092	0.076	0.040
ST12001.2	4.23	2.52	1.92	1.59	1.17	0.85	0.75	0.54	0.43	0.31	0.24	0.21	0.177	0.139	0.113	0.060
ST12002.1	7.14	4.94	3.83	3.08	2.27	1.69	1.37	1.02	0.82	0.59	0.47	0.40	0.338	0.265	0.216	0.115
ST12003.4	12.00	8.11	6.21	4.98	3.62	2.59	2.03	1.50	1.20	0.87	0.70	0.60	0.516	0.406	0.331	0.175
ST12004L	11.20	7.22	5.65	4.72	3.63	2.74	2.19	1.60	1.31	0.98	0.80	0.67	0.581	0.460	0.379	0.202
ST12006	20.30	14.00	10.60	8.51	6.09	4.34	3.48	2.49	1.92	1.38	1.09	0.93	0.796	0.626	0.511	0.270
ST12007.2	22.10	15.30	12.10	10.00	7.30	5.25	4.17	2.99	2.40	1.77	1.44	1.21	1.050	0.828	0.682	0.367
ST12009	24.80	16.50	13.40	11.00	8.03	5.84	4.70	3.41	2.76	2.04	1.63	1.39	1.190	0.949	0.782	0.421
ST12012	35.90	25.10	19.50	15.70	11.50	8.39	6.84	4.98	3.94	3.00	2.40	2.04	1.740	1.370	1.120	0.600
ST12018	55.70	37.10	28.40	23.40	17.55	12.88	10.63	7.68	6.21	4.52	3.62	3.10	2.650	2.090	1.702	0.900
ST12026	79.20	56.30	42.00	35.30	26.20	19.10	15.10	11.20	8.88	6.38	5.06	4.37	3.740	2.940	2.460	1.300

1.70 V/C - Discharge data in Amperes at 25 °C

Type designation	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	4.43	2.62	1.99	1.63	1.20	0.87	0.76	0.55	0.43	0.31	0.25	0.21	0.179	0.141	0.115	0.060
ST06004.5	15.10	10.00	7.81	6.23	4.55	3.30	2.70	1.98	1.56	1.14	0.91	0.78	0.671	0.527	0.430	0.227
ST06007	21.40	14.40	11.10	8.86	6.57	4.92	4.13	3.05	2.49	1.79	1.42	1.21	1.030	0.809	0.660	0.354
ST06012	38.60	26.20	20.20	16.20	11.80	8.55	6.96	5.06	4.01	3.04	2.43	2.07	1.770	1.390	1.130	0.606
ST12000.8	2.54	1.59	1.22	1.01	0.76	0.57	0.46	0.33	0.27	0.20	0.16	0.14	0.119	0.093	0.077	0.041
ST12001.2	4.43	2.62	1.99	1.63	1.20	0.87	0.76	0.55	0.43	0.31	0.25	0.21	0.179	0.141	0.115	0.060
ST12002.1	7.68	5.17	3.97	3.17	2.32	1.72	1.40	1.04	0.83	0.60	0.47	0.40	0.342	0.269	0.219	0.116
ST12003.4	12.50	8.44	6.41	5.12	3.72	2.65	2.07	1.53	1.21	0.89	0.71	0.61	0.522	0.410	0.334	0.176
ST12004L	12.70	7.97	6.11	5.06	3.82	2.84	2.28	1.67	1.36	1.01	0.82	0.69	0.595	0.467	0.386	0.206
ST12006	21.20	14.50	11.00	8.76	6.25	4.44	3.55	2.53	1.95	1.40	1.11	0.94	0.805	0.632	0.516	0.272
ST12007.2	24.10	16.40	12.90	10.50	7.57	5.41	4.30	3.07	2.45	1.81	1.47	1.23	1.060	0.840	0.692	0.372
ST12009	27.10	17.90	14.10	11.50	8.33	6.04	4.84	3.51	2.84	2.08	1.67	1.41	1.210	0.962	0.792	0.426
ST12012	38.60	26.20	20.20	16.20	11.80	8.55	6.96	5.06	4.01	3.04	2.43	2.07	1.770	1.390	1.130	0.606
ST12018	58.30	38.60	29.40	24.10	17.99	13.16	10.83	7.81	6.30	4.58	3.67	3.14	2.680	2.110	1.720	0.907
ST12026	82.90	58.60	43.40	36.40	26.90	19.50	15.40	11.40	9.01	6.47	5.13	4.43	3.780	2.970	2.480	1.310

TRIATHLON® AGM ST Discharge data in Amperes

1.67 V/C - Discharge data in Amperes at 25 °C

Type designation	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	4.58	2.69	2.04	1.67	1.22	0.89	0.77	0.56	0.44	0.31	0.25	0.21	0.181	0.142	0.115	0.061
ST06004.5	15.70	10.30	8.00	6.36	4.63	3.36	2.74	2.01	1.58	1.15	0.92	0.79	0.677	0.531	0.433	0.229
ST06007	22.30	14.80	11.30	9.01	6.67	4.98	4.17	3.08	2.51	1.81	1.43	1.22	1.040	0.816	0.665	0.356
ST06012	40.20	26.90	20.60	16.40	12.00	8.65	7.03	5.11	4.04	3.07	2.45	2.08	1.780	1.400	1.140	0.609
ST12000.8	2.80	1.71	1.29	1.06	0.80	0.59	0.48	0.35	0.28	0.21	0.17	0.14	0.121	0.095	0.078	0.042
ST12001.2	4.58	2.69	2.04	1.67	1.22	0.89	0.77	0.56	0.44	0.31	0.25	0.21	0.181	0.142	0.115	0.061
ST12002.1	7.99	5.31	4.05	3.23	2.35	1.74	1.41	1.05	0.84	0.60	0.48	0.40	0.345	0.271	0.221	0.117
ST12003.4	13.00	8.67	6.57	5.23	3.78	2.69	2.10	1.55	1.23	0.89	0.72	0.62	0.527	0.413	0.337	0.178
ST12004L	14.00	8.57	6.46	5.32	3.98	2.95	2.38	1.73	1.40	1.04	0.84	0.70	0.607	0.475	0.391	0.208
ST12006	22.00	15.00	11.20	8.94	6.36	4.51	3.60	2.57	1.97	1.41	1.12	0.95	0.812	0.637	0.520	0.274
ST12007.2	26.20	17.30	13.50	11.00	7.80	5.52	4.37	3.12	2.49	1.84	1.49	1.25	1.080	0.850	0.699	0.375
ST12009	29.40	18.80	14.60	11.90	8.61	6.23	4.99	3.59	2.89	2.13	1.69	1.44	1.230	0.973	0.800	0.430
ST12012	40.20	26.90	20.60	16.40	12.00	8.65	7.03	5.11	4.04	3.07	2.45	2.08	1.780	1.400	1.140	0.609
ST12018	60.30	39.70	30.10	24.50	18.31	13.37	10.99	7.91	6.37	4.63	3.71	3.17	2.710	2.120	1.732	0.914
ST12026	85.80	60.30	44.50	37.10	27.40	19.80	15.60	11.60	9.11	6.54	5.18	4.46	3.820	2.990	2.500	1.320

1.60 V/C - Discharge data in Amperes at 25 °C

Type designation	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	4.86	2.80	2.11	1.72	1.25	0.91	0.79	0.57	0.45	0.32	0.25	0.22	0.183	0.144	0.117	0.062
ST06004.5	16.60	10.70	8.27	6.55	4.75	3.44	2.80	2.05	1.61	1.17	0.94	0.80	0.687	0.539	0.439	0.231
ST06007	24.30	15.70	11.80	9.40	6.87	5.11	4.27	3.14	2.56	1.84	1.46	1.24	1.060	0.829	0.675	0.361
ST06012	43.70	28.60	21.60	17.10	12.30	8.88	7.20	5.22	4.12	3.13	2.50	2.12	1.810	1.420	1.160	0.618
ST12000.8	2.94	1.79	1.35	1.10	0.82	0.60	0.49	0.36	0.29	0.21	0.17	0.14	0.124	0.097	0.080	0.042
ST12001.2	4.86	2.80	2.11	1.72	1.25	0.91	0.79	0.57	0.45	0.32	0.25	0.22	0.183	0.144	0.117	0.062
ST12002.1	8.71	5.63	4.24	3.35	2.42	1.78	1.45	1.07	0.86	0.61	0.49	0.41	0.351	0.275	0.224	0.118
ST12003.4	13.80	9.04	6.80	5.38	3.88	2.76	2.15	1.58	1.25	0.91	0.73	0.63	0.534	0.419	0.341	0.180
ST12004L	14.70	8.93	6.74	5.48	4.09	3.02	2.43	1.78	1.45	1.06	0.86	0.72	0.619	0.485	0.398	0.210
ST12006	23.30	15.60	11.60	9.20	6.53	4.62	3.68	2.62	2.01	1.44	1.14	0.97	0.824	0.646	0.526	0.277
ST12007.2	27.60	18.00	13.90	11.20	7.93	5.62	4.44	3.17	2.53	1.87	1.51	1.27	1.090	0.858	0.705	0.378
ST12009	31.00	19.60	15.10	12.20	8.85	6.38	5.10	3.67	2.96	2.16	1.73	1.46	1.250	0.983	0.807	0.433
ST12012	43.70	28.60	21.60	17.10	12.30	8.88	7.20	5.22	4.12	3.13	2.50	2.12	1.810	1.420	1.160	0.618
ST12018	64.00	41.40	31.10	25.30	18.80	13.71	11.24	8.08	6.50	4.71	3.77	3.22	2.750	2.150	1.754	0.924
ST12026	91.00	62.80	46.00	38.20	28.10	20.30	16.00	11.80	9.29	6.66	5.27	4.54	3.870	3.040	2.530	1.340

TRIATHLON® AGM ST Discharge data in Watts / cell

1.85 V/C - Discharge data in Watts at 25 °C

Type designation	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	7.06	4.34	3.40	2.86	2.13	1.58	1.39	1.02	0.80	0.58	0.47	0.40	0.34	0.27	0.22	0.12
ST06004.5	24.10	16.60	13.30	10.90	8.10	5.97	4.93	3.66	2.91	2.14	1.73	1.48	1.28	1.01	0.83	0.44
ST06007	32.30	23.90	19.10	15.60	11.80	9.01	7.61	5.67	4.65	3.37	2.69	2.29	1.96	1.55	1.27	0.69
ST06012	58.20	43.50	34.80	28.40	21.20	15.70	12.80	9.40	7.49	5.72	4.60	3.92	3.36	2.65	2.17	1.17
ST12000.8	2.90	2.04	1.70	1.48	1.20	0.93	0.76	0.57	0.47	0.36	0.30	0.25	0.22	0.17	0.15	0.08
ST12001.2	7.06	4.34	3.40	2.86	2.13	1.58	1.39	1.02	0.80	0.58	0.47	0.40	0.34	0.27	0.22	0.12
ST12002.1	11.60	8.58	6.83	5.58	4.17	3.14	2.58	1.93	1.55	1.12	0.89	0.76	0.65	0.51	0.42	0.23
ST12003.4	20.00	14.00	11.00	8.97	6.62	4.79	3.78	2.82	2.26	1.66	1.34	1.16	0.99	0.78	0.64	0.34
ST12004L	14.50	10.20	8.49	7.42	5.99	4.63	3.81	2.83	2.34	1.79	1.47	1.26	1.09	0.87	0.72	0.40
ST12006	33.80	24.10	18.70	15.30	11.10	8.03	6.48	4.68	3.62	2.62	2.09	1.79	1.53	1.21	0.99	0.53
ST12007.2	31.50	24.20	19.70	17.30	12.80	9.42	7.56	5.45	4.40	3.33	2.74	2.32	2.02	1.61	1.33	0.72
ST12009	35.10	25.10	21.30	18.20	13.80	10.30	8.32	6.09	4.97	3.72	3.02	2.59	2.25	1.78	1.47	0.81
ST12012	58.20	43.50	34.80	28.40	21.20	15.70	12.80	9.40	7.49	5.72	4.60	3.92	3.36	2.65	2.17	1.17
ST12018	93.00	64.10	50.20	42.10	32.10	23.81	14.72	12.73	11.73	8.59	6.94	5.95	5.11	4.03	3.31	1.76
ST12026	132.20	97.30	74.20	63.70	47.90	35.20	28.20	21.10	16.80	12.10	9.70	8.39	7.20	5.68	4.77	2.54

1.80 V/C - Discharge data in Watts at 25 °C

Type designation	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	7.52	4.57	3.55	2.96	2.19	1.61	1.42	1.04	0.82	0.59	0.47	0.40	0.35	0.27	0.22	0.12
ST06004.5	25.70	17.50	13.90	11.30	8.32	6.11	5.03	3.72	2.96	2.17	1.75	1.49	1.30	1.02	0.84	0.45
ST06007	34.80	25.00	19.70	16.00	12.10	9.15	7.73	5.74	4.71	3.42	2.72	2.32	1.99	1.57	1.28	0.69
ST06012	62.70	45.40	36.00	29.20	21.70	15.90	13.00	9.53	7.58	5.79	4.66	3.97	3.40	2.68	2.19	1.19
ST12000.8	3.52	2.41	1.95	1.67	1.32	1.00	0.82	0.60	0.49	0.37	0.31	0.26	0.23	0.18	0.15	0.08
ST12001.2	7.52	4.57	3.55	2.96	2.19	1.61	1.42	1.04	0.82	0.59	0.47	0.40	0.35	0.27	0.22	0.12
ST12002.1	12.50	8.96	7.07	5.73	4.26	3.20	2.62	1.96	1.57	1.13	0.90	0.77	0.66	0.52	0.43	0.23
ST12003.4	21.30	14.70	11.40	9.28	6.80	4.90	3.86	2.87	2.29	1.68	1.36	1.17	1.01	0.80	0.65	0.35
ST12004L	17.60	12.00	9.76	8.33	6.59	5.02	4.07	3.00	2.47	1.87	1.54	1.30	1.13	0.90	0.75	0.40
ST12006	36.00	25.40	19.50	15.90	11.40	8.22	6.62	4.76	3.68	2.66	2.12	1.81	1.55	1.23	1.00	0.53
ST12007.2	37.20	26.70	21.80	18.40	13.70	9.95	8.02	5.75	4.61	3.43	2.81	2.37	2.06	1.64	1.36	0.73
ST12009	41.40	28.70	23.70	20.00	15.00	11.00	8.91	6.51	5.31	3.94	3.19	2.72	2.36	1.87	1.54	0.83
ST12012	62.70	45.40	36.00	29.20	21.70	15.90	13.00	9.53	7.58	5.79	4.66	3.97	3.40	2.68	2.19	1.19
ST12018	99.00	67.50	52.40	43.60	32.90	24.36	14.98	12.94	11.92	8.72	7.03	6.03	5.18	4.09	3.35	1.78
ST12026	140.80	102.40	77.40	65.90	49.20	36.10	28.80	21.40	17.00	12.30	9.82	8.50	7.30	5.76	4.84	2.57

TRIATHLON® AGM ST Discharge data in Watts / cell

1.75 V/Z - Discharge data in Watts at 25 °C

Typen- bezeichnung	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	7.84	4.72	3.64	3.02	2.23	1.64	1.44	1.05	0.83	0.60	0.48	0.41	0.35	0.28	0.23	0.12
ST06004.5	26.80	18.10	14.30	11.50	8.49	6.22	5.12	3.78	3.00	2.20	1.77	1.51	1.31	1.03	0.84	0.45
ST06007	37.40	26.10	20.30	16.40	12.30	9.30	7.84	5.82	4.77	3.46	2.76	2.35	2.01	1.58	1.29	0.70
ST06012	67.30	47.40	37.10	29.90	22.10	16.20	13.20	9.66	7.68	5.87	4.72	4.02	3.44	2.71	2.22	1.20
ST12000.8	4.12	2.70	2.13	1.80	1.40	1.06	0.85	0.63	0.51	0.38	0.32	0.27	0.23	0.18	0.15	0.08
ST12001.2	7.84	4.72	3.64	3.02	2.23	1.64	1.44	1.05	0.83	0.60	0.48	0.41	0.35	0.28	0.23	0.12
ST12002.1	13.40	9.35	7.28	5.88	4.34	3.25	2.65	1.98	1.59	1.15	0.91	0.78	0.67	0.53	0.43	0.23
ST12003.4	22.20	15.20	11.70	9.48	6.94	4.99	3.93	2.92	2.33	1.71	1.38	1.19	1.02	0.80	0.66	0.35
ST12004L	20.60	13.50	10.70	9.00	6.99	5.30	4.26	3.13	2.56	1.92	1.58	1.33	1.15	0.91	0.76	0.40
ST12006	37.50	26.20	20.10	16.20	11.70	8.36	6.72	4.83	3.73	2.70	2.15	1.83	1.57	1.24	1.01	0.54
ST12007.2	41.10	28.90	23.10	19.30	14.20	10.30	8.22	5.90	4.74	3.51	2.87	2.42	2.10	1.66	1.37	0.74
ST12009	46.00	31.10	25.40	21.10	15.50	11.40	9.23	6.70	5.44	4.01	3.23	2.75	2.38	1.89	1.56	0.84
ST12012	67.30	47.40	37.10	29.90	22.10	16.20	13.20	9.66	7.68	5.87	4.72	4.02	3.44	2.71	2.22	1.20
ST12018	103.20	69.70	53.80	44.50	33.60	24.79	15.21	13.14	12.10	8.83	7.12	6.10	5.23	4.13	3.38	1.80
ST12026	146.70	105.70	79.50	67.30	50.30	36.70	29.20	21.80	17.30	12.50	9.94	8.60	7.38	5.82	4.88	2.60

1.70 V/Z - Discharge data in Watts at 25 °C

Typen- bezeichnung	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	8.13	4.87	3.74	3.09	2.28	1.67	1.46	1.07	0.84	0.61	0.48	0.41	0.35	0.28	0.23	0.12
ST06004.5	27.80	18.70	14.70	11.80	8.67	6.34	5.19	3.83	3.04	2.23	1.79	1.53	1.32	1.04	0.85	0.45
ST06007	39.90	27.20	20.90	16.80	12.50	9.40	7.95	5.90	4.84	3.50	2.79	2.37	2.03	1.60	1.31	0.71
ST06012	71.80	49.30	38.20	30.70	22.50	16.40	13.40	9.79	7.78	5.94	4.77	4.06	3.48	2.74	2.24	1.21
ST12000.8	4.62	2.94	2.29	1.92	1.46	1.09	0.88	0.65	0.53	0.40	0.32	0.27	0.24	0.18	0.15	0.08
ST12001.2	8.13	4.87	3.74	3.09	2.28	1.67	1.46	1.07	0.84	0.61	0.48	0.41	0.35	0.28	0.23	0.12
ST12002.1	14.30	9.73	7.50	6.02	4.42	3.30	2.69	2.01	1.61	1.16	0.93	0.79	0.68	0.53	0.43	0.23
ST12003.4	23.00	15.70	12.10	9.70	7.09	5.08	3.99	2.96	2.36	1.73	1.39	1.20	1.03	0.81	0.66	0.35
ST12004L	23.10	14.70	11.40	9.59	7.29	5.47	4.42	3.24	2.65	1.97	1.61	1.35	1.17	0.92	0.76	0.41
ST12006	38.90	27.10	20.60	16.60	11.90	8.52	6.83	4.91	3.78	2.73	2.17	1.85	1.59	1.25	1.02	0.54
ST12007.2	44.50	30.70	24.40	20.20	14.70	10.60	8.45	6.04	4.84	3.58	2.92	2.45	2.12	1.68	1.39	0.75
ST12009	49.30	33.10	26.30	21.80	16.00	11.70	9.40	6.83	5.54	4.09	3.27	2.77	2.41	1.90	1.57	0.85
ST12012	71.80	49.30	38.20	30.70	22.50	16.40	13.40	9.79	7.78	5.94	4.77	4.06	3.48	2.74	2.24	1.21
ST12018	107.00	72.00	55.20	45.60	34.30	25.25	15.43	13.31	12.25	8.95	7.20	6.17	5.29	4.17	3.41	1.82
ST12026	152.10	109.20	81.70	68.90	51.30	37.40	29.70	22.10	17.50	12.60	10.10	8.70	7.45	5.87	4.93	2.62

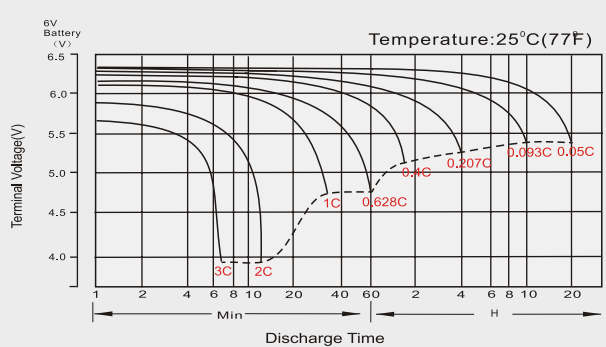
1.67 V/Z - Discharge data in Watts at 25 °C

Typen- bezeichnung	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	8.34	4.98	3.82	3.15	2.32	1.70	1.48	1.08	0.85	0.61	0.49	0.42	0.36	0.28	0.23	0.12
ST06004.5	28.50	19.10	15.00	12.00	8.80	6.42	5.26	3.88	3.07	2.25	1.80	1.54	1.33	1.05	0.86	0.46
ST06007	41.40	27.80	21.30	17.10	12.70	9.50	8.02	5.95	4.87	3.53	2.81	2.39	2.05	1.61	1.32	0.71
ST06012	74.60	50.50	38.90	31.10	22.80	16.60	13.50	9.87	7.84	5.98	4.80	4.09	3.50	2.76	2.26	1.22
ST12000.8	5.03	3.13	2.39	1.99	1.51	1.13	0.92	0.67	0.54	0.40	0.33	0.28	0.24	0.19	0.15	0.08
ST12001.2	8.34	4.98	3.82	3.15	2.32	1.70	1.48	1.08	0.85	0.61	0.49	0.42	0.36	0.28	0.23	0.12
ST12002.1	14.80	9.96	7.64	6.11	4.47	3.33	2.71	2.03	1.62	1.17	0.93	0.79	0.68	0.54	0.44	0.23
ST12003.4	23.60	16.10	12.30	9.88	7.20	5.15	4.04	2.99	2.38	1.74	1.40	1.21	1.04	0.82	0.67	0.36
ST12004L	25.10	15.60	12.00	9.96	7.53	5.65	4.57	3.33	2.71	2.01	1.63	1.38	1.19	0.93	0.77	0.41
ST12006	40.00	27.70	21.10	16.90	12.10	8.63	6.92	4.96	3.81	2.75	2.19	1.87	1.60	1.26	1.03	0.55
ST12007.2	47.80	32.10	25.40	21.00	15.00	10.70	8.54	6.11	4.89	3.63	2.96	2.48	2.15	1.70	1.40	0.75
ST12009	52.70	34.40	27.00	22.20	16.30	11.90	9.60	6.93	5.60	4.14	3.30	2.80	2.42	1.91	1.58	0.85
ST12012	74.60	50.50	38.90	31.10	22.80	16.60	13.50	9.87	7.84	5.98	4.80	4.09	3.50	2.76	2.26	1.22
ST12018	109.80	73.60	56.40	46.40	34.80	25.59	15.59	13.44	12.36	9.02	7.26	6.22	5.33	4.20	3.43	1.83
ST12026	156.10	111.70	83.40	70.20	52.10	37.90	30.10	22.30	17.70	12.80	10.10	8.76	7.52	5.92	4.96	2.64

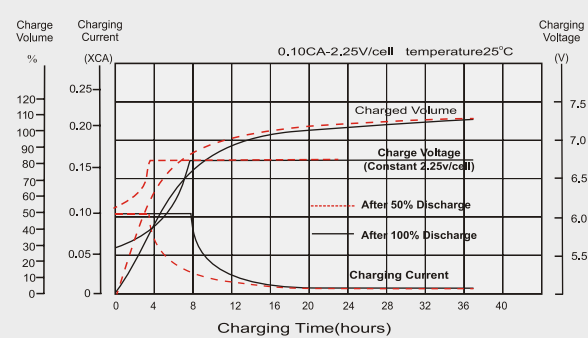
1.60 V/Z - Discharge data in Watts at 25 °C

Typen- bezeichnung	5 min	10 min	15 min	20 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
ST06001.2	8.68	5.13	3.92	3.23	2.37	1.73	1.51	1.10	0.86	0.62	0.49	0.42	0.36	0.28	0.23	0.12
ST06004.5	29.60	19.70	15.40	12.30	9.00	6.54	5.36	3.94	3.12	2.28	1.83	1.56	1.35	1.06	0.87	0.46
ST06007	44.70	29.20	22.10	17.60	13.00	9.70	8.17	6.05	4.95	3.59	2.85	2.43	2.08	1.64	1.34	0.72
ST06012	80.40	53.10	40.40	32.10	23.30	16.90	13.80	10.00	7.97	6.08	4.88	4.15	3.56	2.80	2.29	1.24
ST12000.8	5.19	3.21	2.46	2.03	1.53	1.14	0.93	0.68	0.56	0.41	0.33	0.28	0.24	0.19	0.16	0.08
ST12001.2	8.68	5.13	3.92	3.23	2.37	1.73	1.51	1.10	0.86	0.62	0.49	0.42	0.36	0.28	0.23	0.12
ST12002.1	16.00	10.50	7.93	6.31	4.58	3.40	2.77	2.06	1.65	1.19	0.95	0.81	0.69	0.54	0.44	0.24
ST12003.4	24.60	16.50	12.70	10.10	7.36	5.24	4.11	3.04	2.42	1.77	1.42	1.23	1.05	0.83	0.68	0.36
ST12004L	26.00	16.10	12.30	10.20	7.67	5.72	4.64	3.40	2.78	2.05	1.66	1.40	1.21	0.95	0.78	0.41
ST12006	41.60	28.50	21.60	17.30	12.40	8.79	7.04	5.04	3.88	2.80	2.22	1.89	1.62	1.28	1.04	0.56
ST12007.2	49.80	33.00	25.90	21.20	15.20	10.80	8.63	6.18	4.95	3.67	2.98	2.51	2.16	1.71	1.41	0.76
ST12009	54.30	34.90	27.50	22.40	16.50	12.10	9.70	7.02	5.68	4.17	3.34	2.83	2.44	1.92	1.59	0.85
ST12012	80.40	53.10	40.40	32.10	23.30	16.90	13.80	10.00	7.97	6.08	4.88	4.15	3.56	2.80	2.29	1.24
ST12018	114.20	75.80	58.00	47.60	35.60	26.06	15.86	13.66	12.56	9.17	7.37	6.30	5.40	4.25	3.47	1.85
ST12026	162.40	114.90	85.70	71.90	53.20	38.60	30.60	22.70	18.00	13.00	10.30	8.88	7.61	5.99	5.02	2.67

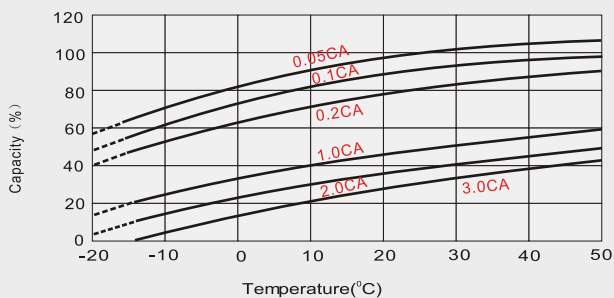
Discharge behaviour



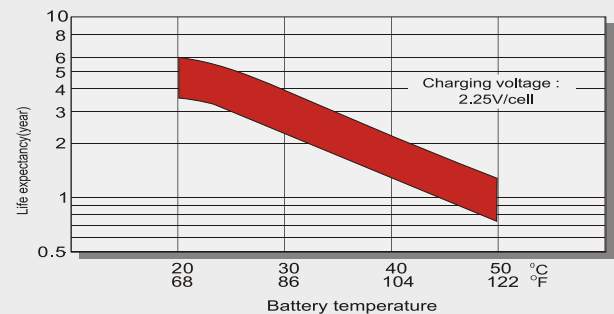
Charge behaviour



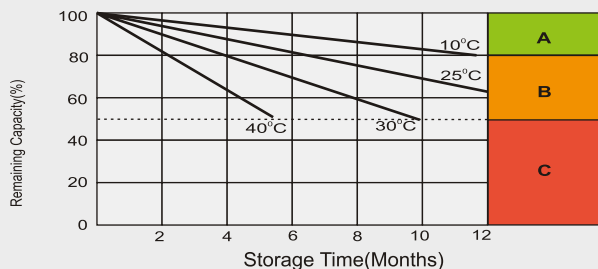
Battery capacity in relation to temperature



Temperature



Self-discharge



- 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.

Further information and details can be found in our data sheets.

Maximum safety for your consumers!

Notes



Triathlon System GmbH

Hauptsitz / Headquarters

Benno-Strauß-Straße 13
90763 Fürth
Germany

Tel: +49 (0)911 / 78 09 60-0
Fax: +49 (0)911 / 78 09 60-699

E-Mail: info@triathlon-system.de
Internet: www.triathlon-system.de

Triathlon System GmbH

Niederlassung München / Branch Munich

Röntgenstraße 3
85221 Dachau
Germany

Tel: +49 (0)8131 / 332 17-19
Fax: +49 (0)8131 / 332 17-44

E-Mail: info@triathlon-system.de
Internet: www.triathlon-system.de

Triathlon System GmbH

Niederlassung Gera / Branch Gera

Leibnizstraße 86
07548 Gera
Germany

Tel: +49 (0)365 / 712 97 79-70
Fax: +49 (0)365 / 712 97 79-73

E-Mail: info@triathlon-system.de
Internet: www.triathlon-system.de