



TSLA7-12B

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

15 min rate	(168W	to	9.60V)	42Wh
5 hour rate	(1.19A	to	10.20V)	5.95Ah
1 C	(7A	to	9.60V)	4.43Ah
3 C	(21A	to	9.60V)	2.8Ah

Weight Approx. 2.2kg(4.84Lbs.)

Internal Resistance (at 1KHz) Approx. 17 mΩ

Maximum Discharge Current for

5 seconds: 105A

Charging Methods at 25 (77)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/ /cell

Maximum Charging Current : 2.1A

Standby use:

Float Charging Voltage 13.50 to 13.80V

Coefficient -3.3mv/ /cell

Operating Temperature Range

Charge -15 (5) to 40 (104)

Discharge -15 (5) to 50 (122)

Storage -15 (5) to 40 (104)

Charge Retention (shelf life) at 20 (68)

1 month 92%

3 month 90%

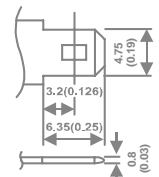
6 month 80%

Case Material ABS

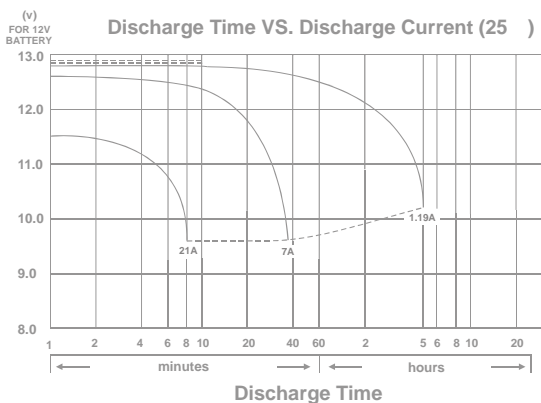
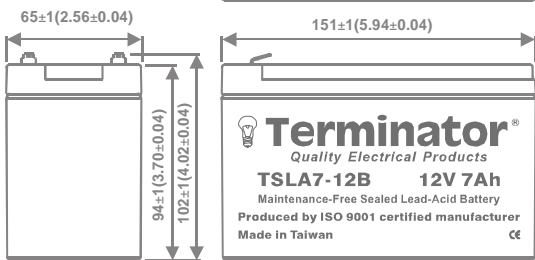
(UL94 HB flame retardant)

Terminal F1 (Faston Tab 187)

Dimensions mm(inch)

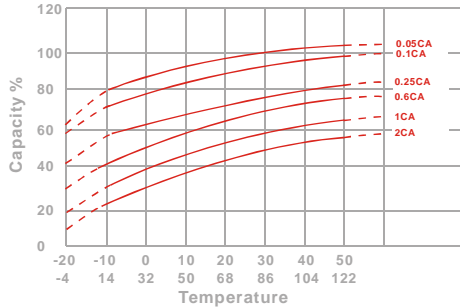


F1 (Faston Tab 187)

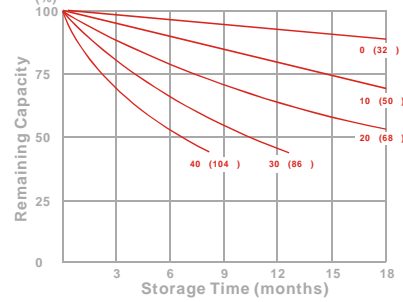


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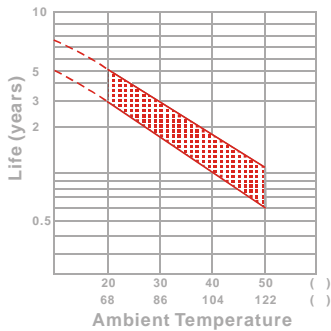
Effect of Temperature on Capacity 25 (77)



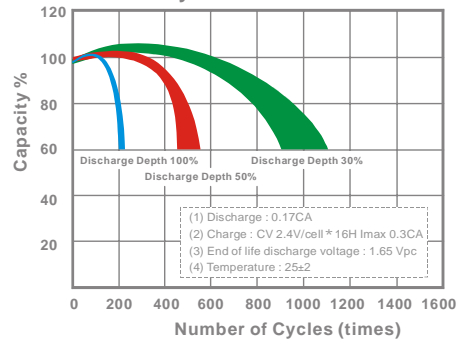
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

- Discharge Rates in Amperes to Various End Voltages at 25 (77)

Time	End Voltage	11.1V	10.8V	10.5V	10.2V	10.02V	9.9V	9.6V
5	min	23.1	26.2	27.8	29.1	29.6	30.5	31.7
10	min	16.1	17.3	18.1	18.6	18.9	19.2	19.8
15	min	12.6	13.1	13.5	13.8	14.0	14.1	14.3
30	min	6.54	7.05	7.28	7.47	7.56	7.68	7.85
60	min	4.02	4.25	4.41	4.52	4.58	4.63	4.71
120	min	2.26	2.38	2.45	2.49	2.51	2.54	2.57
180	min	1.65	1.74	1.79	1.82	1.83	1.85	1.88
240	min	1.39	1.44	1.48	1.51	1.53	1.55	1.57
300	min	1.13	1.19	1.24	1.28	1.30	1.31	1.32
600	min	0.667	0.675	0.682	0.687	0.690	0.694	0.699
1200	min	0.339	0.346	0.350	0.353	0.355	0.357	0.359

Discharge Rates in Watts to Various End Voltages at 25 (77)

Time	End Voltage	11.1V	10.8V	10.5V	10.2V	10.02V	9.9V	9.6V
5	min	263	282	294	306	311	317	326
10	min	180	191	199	206	209	213	219
15	min	144	151	155	159	161	164	168
30	min	72.4	77.6	81.5	84.6	85.5	86.4	87.5
60	min	46.2	50.3	51.8	53.2	53.8	54.5	55.4
120	min	24.6	27.1	28.3	29.5	29.9	30.4	31.2
180	min	18.5	19.9	20.9	21.7	22.0	22.3	22.8
240	min	17.1	17.6	18.0	18.3	18.4	18.6	18.9
300	min	14.8	15.2	15.5	15.7	15.8	15.9	16.1
600	min	8.16	8.39	8.51	8.59	8.62	8.66	8.72
1200	min	4.14	4.23	4.31	4.37	4.39	4.42	4.46

All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min X<10min(+12%~-12%),10min X<60min(+8%~-8%), X 60min(+5%~-5%)