



TSLA10-12SE

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(0.5A	to	10.50V)	10Ah
10 hour rate	(0.95A	to	10.50V)	9.5Ah
5 hour rate	(1.7A	to	10.20V)	8.5Ah
1 C	(10A	to	9.60V)	6.33Ah
3 C	(30A	to	9.60V)	4Ah

Weight Approx. 3.3kg(7.26Lbs.)

Internal Resistance (at 1KHz) Approx. 12 mΩ

Maximum Discharge Current for

5 seconds: 150A

Charging Methods at 25 (77)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/ /cell

Maximum Charging Current : 3.0A

Standby use:

Float Charging Voltage 13.50 to 13.80V

Coefficient -3.0mv/ /cell

Operating Temperature Range

Charge -15 (5) to 40 (104)

Discharge -15 (5) to 50 (122)

Storage -15 (5) to 40 (104)

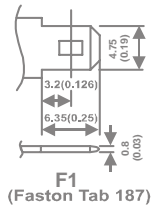
Charge Retention (shelf life) at 20 (68)

1 month	92%
3 month	90%
6 month	80%

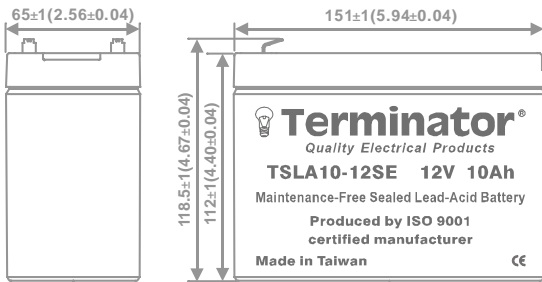
Case Material ABS
(UL94 HB)

Terminal F1 (Faston Tab 187)

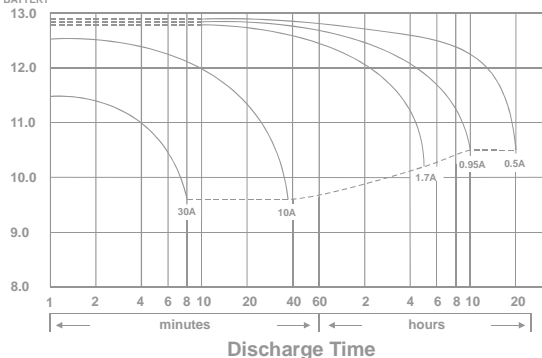
Dimensions mm(inch)



F1 (Faston Tab 187)



(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25)



TSLA10-12SE

- PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	298	343	361	376	382	388	395
10	min	226	247	258	266	269	273	278
15	min	175	188	196	202	205	208	211
30	min	110	115	118	120	122	123	124
60	min	62.6	67.3	69.8	71.2	71.8	72.5	73.3
120	min	35.3	38.6	40.3	41.5	42.0	42.6	43.2
180	min	27.4	29.7	31.2	32.3	32.6	33.1	33.6
240	min	22.7	23.5	24.1	24.6	24.8	25.1	25.4
300	min	19.9	20.5	20.9	21.2	21.4	21.6	21.8
600	min	11.5	11.8	12.1	12.4	12.5	12.6	12.8
1200	min	6.36	6.55	6.68	6.87	6.92	6.96	7.03

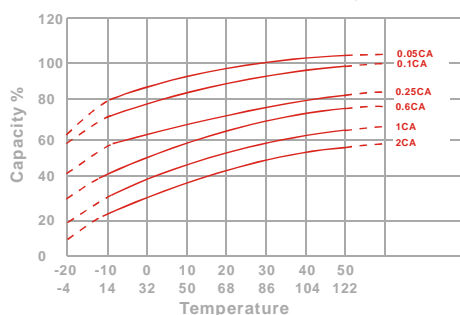
Discharge Rates in Amperes to Various End Voltages at 25 (77)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	24.6	29.3	32.7	34.1	34.9	35.6	36.1
10	min	21.4	24.1	25.6	26.7	27.1	27.6	28.3
15	min	15.6	17.2	18.4	19.1	19.5	19.9	20.4
30	min	10.7	11.3	11.8	12.2	12.4	12.6	12.8
60	min	5.69	6.03	6.26	6.45	6.58	6.63	6.69
120	min	3.24	3.39	3.48	3.56	3.59	3.62	3.67
180	min	2.55	2.63	2.68	2.72	2.74	2.76	2.79
240	min	1.96	2.01	2.05	2.08	2.09	2.11	2.12
300	min	1.69	1.72	1.74	1.76	1.77	1.78	1.79
600	min	0.974	1.00	1.02	1.04	1.05	1.06	1.07
1200	min	0.525	0.527	0.532	0.536	0.538	0.541	0.544

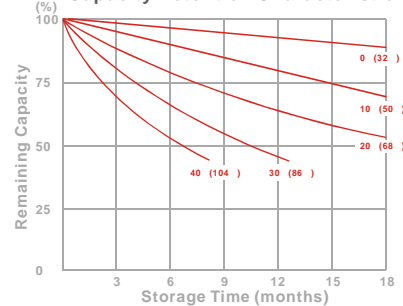
All data on the spec. sheet is an average value:

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

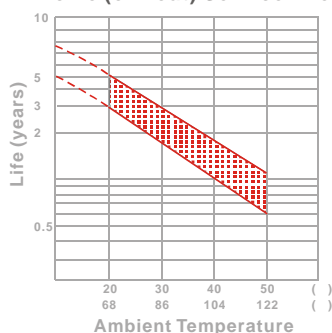
Effect of Temperature on Capacity 25 (77)



Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life

