



TSLA5-12B

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

| | | | | |
|--------------|---------|----|---------|--------|
| 20 hour rate | (0.25A | to | 10.50V) | 5Ah |
| 10 hour rate | (0.475A | to | 10.50V) | 4.75Ah |
| 5 hour rate | (0.85A | to | 10.20V) | 4.25Ah |
| 1 C | (5A | to | 9.60V) | 2.67Ah |
| 3 C | (15A | to | 9.60V) | 1.75Ah |

Weight **Approx. 1.65kg(3.63Lbs.)**

Internal Resistance (at 1KHz) **Approx. 34 mΩ**

Maximum Discharge Current for

5 seconds: **75A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient **-5.0mv/ /cell**

Maximum Charging Current : **1.5A**

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

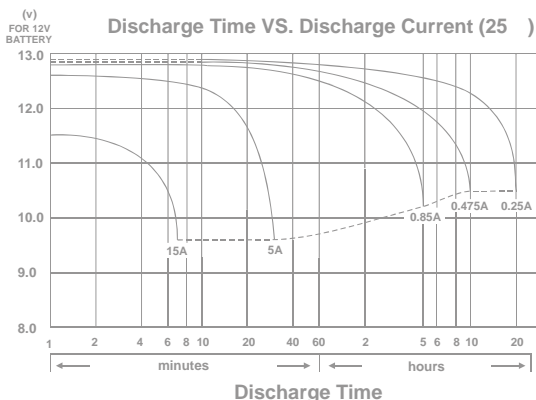
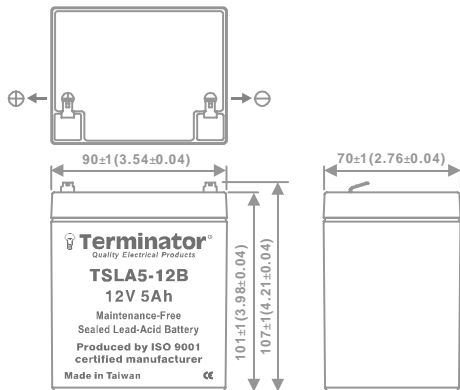
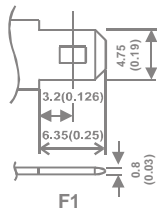
(UL94 HB)

Terminal

F1 (Faston Tab 187)

Dimensions

mm(inch)



TSLA5-12B

- PERFORMANCE DATA

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 | 14.9 | 17.0 | 18.3 | 18.8 | 19.0 | 19.2 | 19.4 |
| 10 | min | 10.0 | 11.3 | 11.6 | 11.8 | 11.9 | 12.0 | 12.1 |
| 15 | min | 7.21 | 7.83 | 8.31 | 8.53 | 8.58 | 8.65 | 8.74 |
| 30 | min | 4.36 | 4.82 | 4.97 | 5.11 | 5.15 | 5.21 | 5.26 |
| 60 | min | 2.53 | 2.78 | 2.89 | 2.97 | 2.99 | 3.02 | 3.05 |
| 120 | min | 1.42 | 1.54 | 1.62 | 1.65 | 1.66 | 1.67 | 1.69 |
| 180 | min | 1.14 | 1.21 | 1.23 | 1.25 | 1.26 | 1.27 | 1.28 |
| 240 | min | 0.889 | 0.948 | 0.973 | 0.996 | 1.00 | 1.01 | 1.02 |
| 300 | min | 0.812 | 0.843 | 0.856 | 0.867 | 0.871 | 0.876 | 0.882 |
| 600 | min | 0.474 | 0.496 | 0.511 | 0.519 | 0.523 | 0.527 | 0.531 |
| 1200 | min | 0.241 | 0.255 | 0.267 | 0.275 | 0.278 | 0.282 | 0.286 |

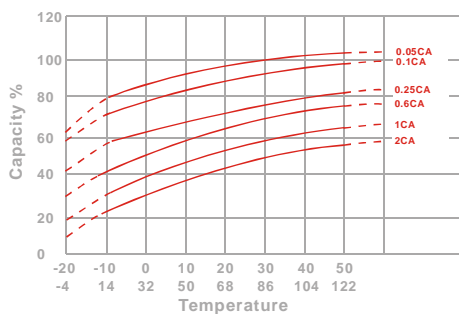
Discharge Rates in Watts to Various End Voltages at 25 (77)

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 136 | 154 | 167 | 179 | 184 | 190 | 197 |
| 10 | min | 98.5 | 112 | 120 | 126 | 128 | 131 | 134 |
| 15 | min | 79.5 | 88.7 | 92.1 | 94.9 | 95.7 | 96.6 | 97.8 |
| 30 | min | 46.7 | 52.4 | 54.5 | 56.6 | 57.2 | 57.9 | 58.6 |
| 60 | min | 26.3 | 29.7 | 31.9 | 33.7 | 34.1 | 34.7 | 35.2 |
| 120 | min | 16.2 | 17.8 | 18.6 | 19.2 | 19.5 | 19.9 | 20.3 |
| 180 | min | 12.7 | 13.8 | 14.4 | 14.8 | 15.0 | 15.3 | 15.6 |
| 240 | min | 10.3 | 11.1 | 11.6 | 11.9 | 12.1 | 12.2 | 12.4 |
| 300 | min | 9.17 | 9.82 | 10.1 | 10.3 | 10.4 | 10.5 | 10.7 |
| 600 | min | 6.12 | 6.47 | 6.62 | 6.74 | 6.79 | 6.85 | 6.92 |
| 1200 | min | 2.98 | 3.21 | 3.33 | 3.41 | 3.43 | 3.47 | 3.51 |

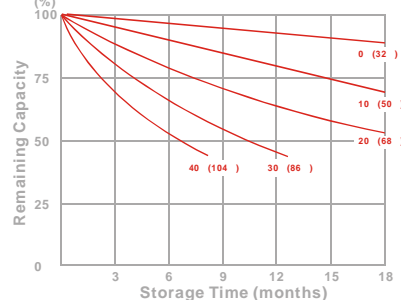
All data on the spec. sheet is an average value:

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

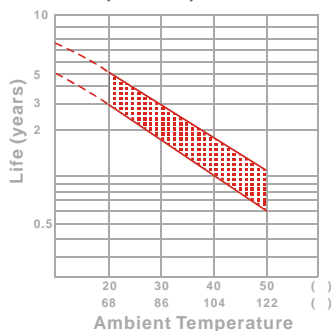
Effect of Temperature on Capacity 25 (77)



Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life

