

PT2.3-12

12Volt 2.3Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

| | | |
|--------------|--------------------|--------|
| 20 hour rate | (0.25A to 10.50V) | 2.3Ah |
| 10 hour rate | (0.475A to 10.50V) | 2.12Ah |
| 5 hour rate | (0.85A to 10.20V) | 1.96Ah |
| 1 C | (5A to 9.60V) | 1.40Ah |
| 3 C | (15A to 9.60V) | 1.64Ah |

Weight Approx. 0.9kg(1.98Lbs.)

Internal Resistance (at 1KHz) Approx. 19 mΩ

Maximum Discharge Current for

5 seconds: 13A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 0.69A

Standby use:

Float Charging Voltage 13.5 to 13.8V

Coefficient -3.0mV/°C/cell

Operating Temperature Range

Charge -15°C (5°F) to 40°C (104°F)

Discharge -15°C (5°F) to 50°C (122°F)

Storage -15°C (5°F) to 40°C (104°F)

Charge Retention (shelf life) at 20°C (68°F)

1 month 92%

3 month 90%

6 month 80%

Case Material ABS UL94 HB

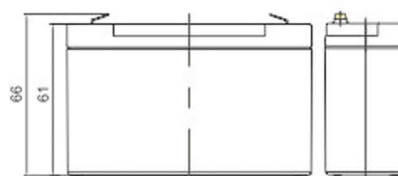
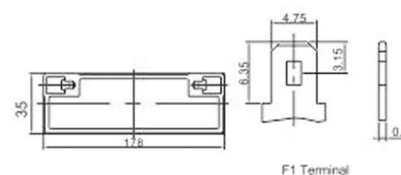
Option: Flammability resistance of (UL94 V-0)

Terminal F1 or F2 (Faston Tab 187 or 250)

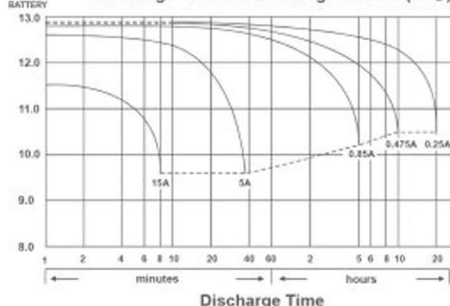


Dimensions

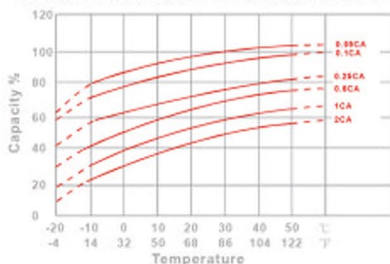
mm(inch)



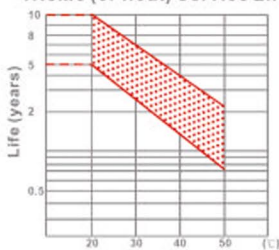
(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



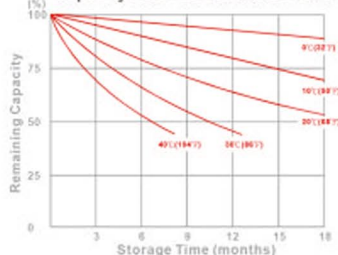
Effect of Temperature on Capacity 25°C(77°F)



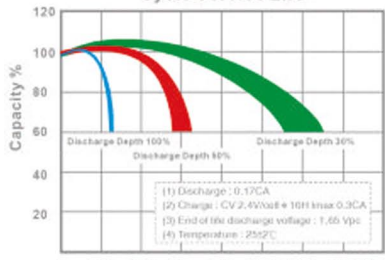
Trickle (or float) Service Life



Capacity Retention Characteristic



Cycle Service Life



Constant Current Discharge Characteristics : A (25°C)

| F.V./Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | 5.154 | 3.361 | 2.480 | 1.435 | 0.829 | 0.489 | 0.356 | 0.283 | 0.239 | 0.160 | 0.130 | 0.068 |
| 1.65V | 4.968 | 3.261 | 2.415 | 1.404 | 0.814 | 0.482 | 0.351 | 0.280 | 0.236 | 0.158 | 0.129 | 0.067 |
| 1.70V | 4.726 | 3.130 | 2.329 | 1.362 | 0.794 | 0.473 | 0.345 | 0.275 | 0.233 | 0.156 | 0.127 | 0.066 |
| 1.75V | 4.415 | 2.960 | 2.218 | 1.307 | 0.767 | 0.460 | 0.336 | 0.269 | 0.228 | 0.153 | 0.125 | 0.065 |
| 1.80V | 4.022 | 2.743 | 2.075 | 1.237 | 0.732 | 0.443 | 0.325 | 0.261 | 0.221 | 0.149 | 0.122 | 0.064 |
| 1.85V | 3.540 | 2.471 | 1.895 | 1.146 | 0.687 | 0.422 | 0.311 | 0.250 | 0.213 | 0.144 | 0.118 | 0.062 |

Constant Power Discharge Characteristics : WPC (25°C)

| F.V./Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|-----------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V | 8.87 | 5.80 | 4.40 | 2.65 | 1.57 | 0.94 | 0.69 | 0.55 | 0.47 | 0.32 | 0.26 | 0.14 |
| 1.65V | 8.78 | 5.78 | 4.38 | 2.63 | 1.56 | 0.93 | 0.68 | 0.55 | 0.46 | 0.31 | 0.26 | 0.13 |
| 1.70V | 8.44 | 5.61 | 4.26 | 2.56 | 1.53 | 0.92 | 0.67 | 0.54 | 0.46 | 0.31 | 0.25 | 0.13 |
| 1.75V | 8.03 | 5.40 | 4.11 | 2.49 | 1.48 | 0.90 | 0.66 | 0.53 | 0.45 | 0.31 | 0.25 | 0.13 |
| 1.80V | 7.44 | 5.09 | 3.90 | 2.37 | 1.42 | 0.87 | 0.64 | 0.52 | 0.44 | 0.30 | 0.24 | 0.13 |
| 1.85V | 6.67 | 4.66 | 3.61 | 2.22 | 1.34 | 0.83 | 0.62 | 0.50 | 0.42 | 0.29 | 0.24 | 0.13 |

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.