

MP13-6

Nominal Voltage (V) 6V

Nominal Capacity

| | | |
|--------------|-------------------|---------|
| 20 hour rate | (0.65A to 5.25V) | 12.00Ah |
| 10 hour rate | (1.235A to 5.25V) | 12.35Ah |
| 5 hour rate | (2.21A to 5.1V) | 11.05Ah |
| 1 C | (13A to 4.8V) | 7.36Ah |
| 3 C | (39A to 4.8V) | 5.20Ah |

Weight Approx. 2.24kg (4.85lbs)

Internal Resistance (at 1KHz) Approx. 9 mΩ

Maximum Discharge Current for 5 seconds: 156A

Charging Methods at 25°C (77°F)

| | |
|----------------------------|----------------|
| Cycle use: | |
| Charging Voltage | 7.35V to 7.40V |
| Coefficient -5.0mv/°C/cell | |
| Maximum Charging Current: | 3.9A |
| Standby use: | |
| Float Charging Voltage | 6.75V to 6.90V |
| 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)

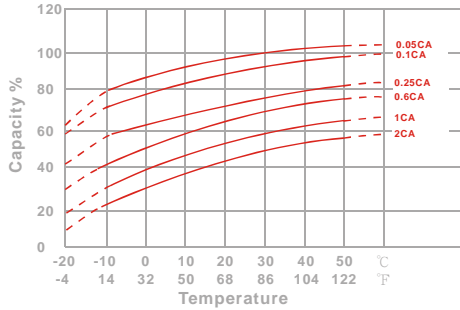
| | |
|---------|-----|
| 1 month | 92% |
| 3 month | 90% |
| 6 month | 80% |

Case Material ABS
(UL94 HB flame retardant case / cover)

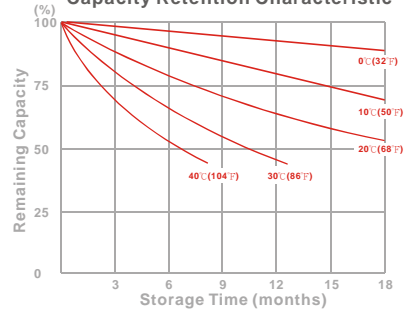
Terminal F1-F2+ (Faston Tab 187 and 250)

CHARACTERISTIC & PERFORMANCE DATA

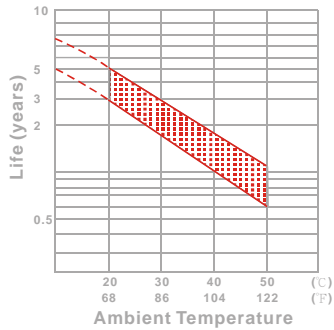
Effect of Temperature on Capacity 25°C(77°F)



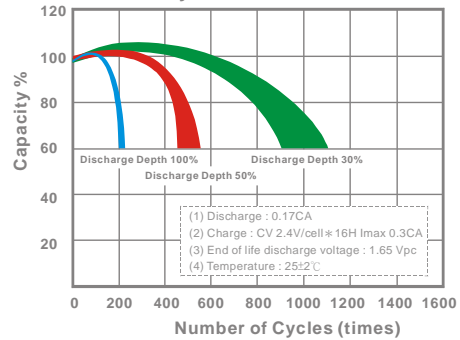
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 219 | 244 | 262 | 281 | 289 | 298 | 314 |
| 10 | min | 155 | 170 | 178 | 186 | 188 | 193 | 198 |
| 15 | min | 125 | 133 | 138 | 143 | 144 | 147 | 151 |
| 30 | min | 67.8 | 73.6 | 78.2 | 82.3 | 83.2 | 84.0 | 85.3 |
| 60 | min | 50.8 | 52.6 | 54.0 | 55.1 | 55.6 | 56.1 | 56.7 |
| 120 | min | 26.2 | 27.6 | 28.4 | 29.2 | 29.4 | 29.8 | 30.2 |
| 180 | min | 17.9 | 19.0 | 19.6 | 20.2 | 20.3 | 20.6 | 20.8 |
| 240 | min | 15.1 | 15.7 | 16.1 | 16.5 | 16.7 | 16.8 | 17.0 |
| 300 | min | 12.8 | 13.2 | 13.6 | 13.9 | 14.0 | 14.2 | 14.5 |
| 600 | min | 7.30 | 7.62 | 7.78 | 7.92 | 7.98 | 8.06 | 8.17 |
| 1200 | min | 3.68 | 3.86 | 3.98 | 4.10 | 4.15 | 4.19 | 4.29 |

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

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 40.2 | 44.7 | 48.1 | 51.5 | 53.0 | 54.6 | 57.7 |
| 10 | min | 27.8 | 30.3 | 31.8 | 33.2 | 33.7 | 34.5 | 35.3 |
| 15 | min | 21.9 | 23.3 | 24.2 | 25.1 | 25.4 | 25.7 | 26.5 |
| 30 | min | 12.3 | 13.1 | 13.7 | 14.1 | 14.1 | 14.4 | 14.6 |
| 60 | min | 8.87 | 9.07 | 9.20 | 9.32 | 9.37 | 9.44 | 9.53 |
| 120 | min | 4.55 | 4.71 | 4.83 | 4.92 | 4.96 | 5.00 | 5.05 |
| 180 | min | 3.10 | 3.30 | 3.38 | 3.45 | 3.48 | 3.51 | 3.55 |
| 240 | min | 2.57 | 2.62 | 2.67 | 2.72 | 2.75 | 2.79 | 2.83 |
| 300 | min | 2.13 | 2.19 | 2.25 | 2.31 | 2.33 | 2.37 | 2.41 |
| 600 | min | 1.25 | 1.27 | 1.30 | 1.32 | 1.33 | 1.34 | 1.35 |
| 1200 | min | 0.639 | 0.647 | 0.667 | 0.677 | 0.685 | 0.693 | 0.708 |

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

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+5%~-5%)