



ES1.2-12

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

| | |
|-----------------------------------|--------|
| 20 hour rate (0.06A to 10.50V) | 1.2Ah |
| 10 hour rate (0.114A to 10.50V) | 1.14Ah |
| 5 hour rate (0.204A to 10.20V) | 1.02Ah |
| 1C (1.2A to 9.60V) | 0.68Ah |
| 3C (3.6A to 9.60V) | 0.48Ah |

Weight Approx. 1.21Lbs. (0.55kg)

Internal Resistance (at 1KHz) Approx. 60.5 mΩ

Maximum Discharge Current for 5 seconds : 18A

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 months | 90% |
| 6 months | 80% |

Charging Methods at 25°C (77°F)

Cycle Use : Charging Voltage 14.4 to 15.0V
Coefficient -5.0mv / °C / cell
Maximum Charging Current : 0.36A

Standby Use : Float Charging Voltage 13.5 to 13.8V
Coefficient -3.0mv / °C / cell

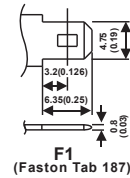
Case Material : ABS UL94 HB

Terminal : F1

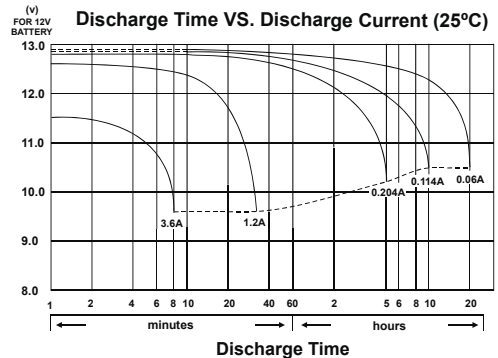
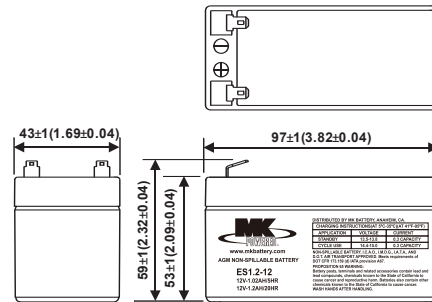
Maintenance-Free Rechargeable Sealed Lead-Acid Battery



DIMENSIONS



F1 (Faston Tab 187)



MK Battery

1631 South Sinclair Street • Anaheim, California 92806

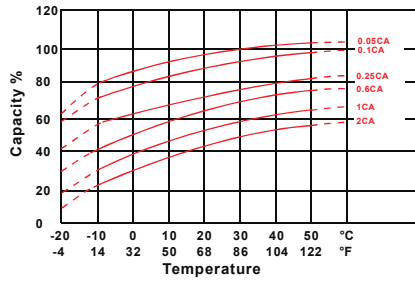
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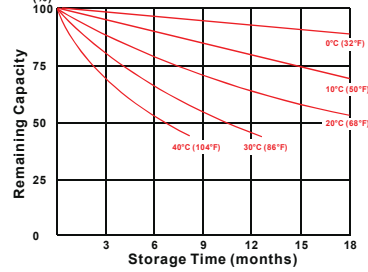


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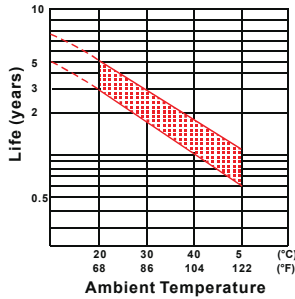
Effect of Temperature on Capacity 25°C (77°F)



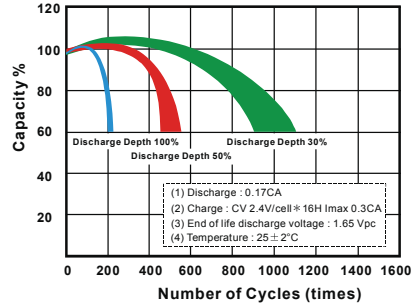
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 8.17 | 9.12 | 9.77 | 10.3 | 10.5 | 10.7 | 10.9 |
| 10 | min | 6.06 | 6.29 | 6.50 | 6.70 | 6.83 | 6.92 | 6.97 |
| 15 | min | 4.20 | 4.70 | 4.87 | 4.96 | 5.04 | 5.09 | 5.13 |
| 30 | min | 2.67 | 2.75 | 2.82 | 2.87 | 2.92 | 2.95 | 2.98 |
| 60 | min | 1.36 | 1.41 | 1.46 | 1.51 | 1.55 | 1.58 | 1.60 |
| 120 | min | 0.897 | 0.933 | 0.967 | 0.988 | 1.005 | 1.018 | 1.025 |
| 180 | min | 0.590 | 0.612 | 0.630 | 0.645 | 0.657 | 0.663 | 0.670 |
| 240 | min | 0.510 | 0.518 | 0.527 | 0.535 | 0.543 | 0.552 | 0.560 |
| 300 | min | 0.442 | 0.455 | 0.465 | 0.472 | 0.476 | 0.479 | 0.482 |
| 600 | min | 0.248 | 0.254 | 0.257 | 0.258 | 0.260 | 0.262 | 0.264 |
| 1200 | min | 0.139 | 0.144 | 0.146 | 0.148 | 0.149 | 0.150 | 0.151 |

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

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 4.40 | 4.77 | 5.02 | 5.23 | 5.41 | 5.51 | 5.58 |
| 10 | min | 3.15 | 3.29 | 3.35 | 3.38 | 3.41 | 3.43 | 3.45 |
| 15 | min | 2.19 | 2.42 | 2.56 | 2.67 | 2.72 | 2.77 | 2.81 |
| 30 | min | 1.29 | 1.34 | 1.38 | 1.40 | 1.42 | 1.44 | 1.46 |
| 60 | min | 0.694 | 0.720 | 0.742 | 0.756 | 0.768 | 0.777 | 0.787 |
| 120 | min | 0.475 | 0.484 | 0.489 | 0.496 | 0.502 | 0.507 | 0.510 |
| 180 | min | 0.314 | 0.322 | 0.328 | 0.331 | 0.334 | 0.336 | 0.338 |
| 240 | min | 0.259 | 0.265 | 0.269 | 0.272 | 0.274 | 0.275 | 0.276 |
| 300 | min | 0.229 | 0.236 | 0.240 | 0.242 | 0.244 | 0.246 | 0.248 |
| 600 | min | 0.124 | 0.127 | 0.129 | 0.130 | 0.131 | 0.132 | 0.132 |
| 1200 | min | 0.060 | 0.066 | 0.070 | 0.072 | 0.074 | 0.076 | 0.077 |

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%)

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