



ES3-12

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate (0.15A to 10.50V)	3Ah
10 hour rate (0.285A to 10.50V)	2.85Ah
5 hour rate (0.51A to 10.20V)	2.55Ah
1C (3A to 9.60V)	1.6Ah
3C (9A to 9.60V)	1.05Ah

Weight Approx. 2.86Lbs. (1.3kg)

Internal Resistance (at 1KHz) Approx. 45 mΩ

Maximum Discharge Current for 5 seconds : 45A

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 : 0.9A

Standby Use : Float Charging Voltage 13.50 to 13.80V
Coefficient -3.0mv / °C / cell

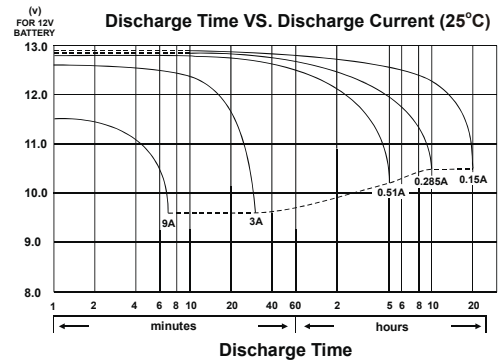
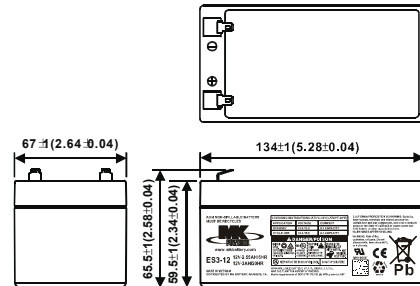
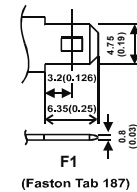
Case Material : ABS
(Option : UL94 HB Flame Retardant Case Material)

Terminal : F1

Maintenance-Free Rechargeable Sealed Lead-Acid Battery



DIMENSIONS



MK Battery

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