



# ES26-12T

## SPECIFICATIONS

**Nominal Voltage (V)** 12V

### Nominal Capacity

|                                  |         |
|----------------------------------|---------|
| 20 hour rate ( 1.3A to 10.50V )  | 26Ah    |
| 10 hour rate ( 2.47A to 10.50V ) | 24.7Ah  |
| 5 hour rate ( 4.42A to 10.20V )  | 22.1Ah  |
| 1C ( 26A to 9.60V )              | 14.73Ah |
| 3C ( 78A to 9.60V )              | 10.4Ah  |

**Weight** Approx. 20.2Lbs. (9.18kg)

**Internal Resistance (at 1KHz)** Approx. 9.4 mΩ

**Maximum Discharge Current for 5 seconds :** 390A

### 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 : 7.8A

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

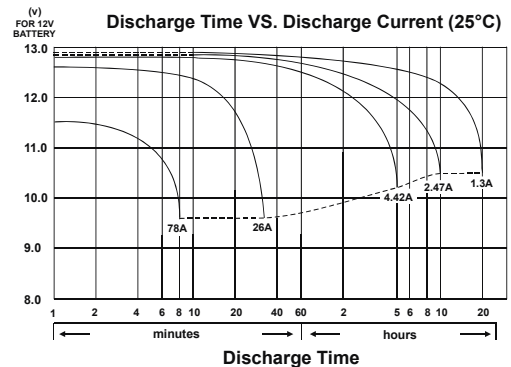
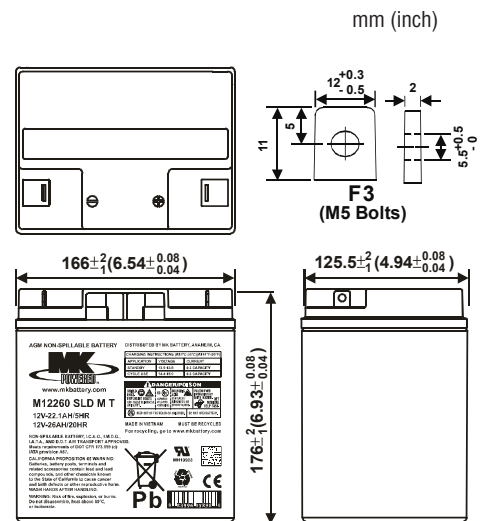
**Case Material :** ABS  
(Option : UL94 HB Flame Retardant Case Material)

**Terminal :** F3

## Maintenance-Free Rechargeable Sealed Lead-Acid Battery



## DIMENSIONS



## MK Battery

1631 South Sinclair Street • Anaheim, California 92806

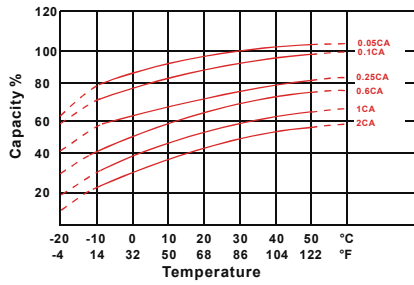
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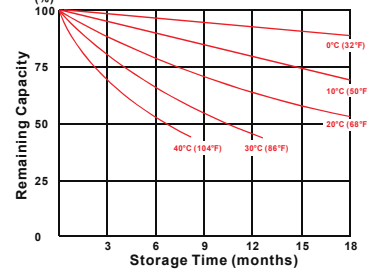


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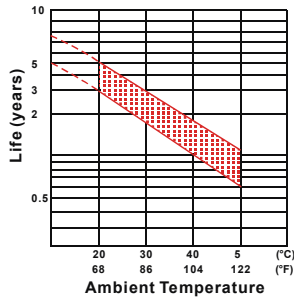
Effect of Temperature on Capacity 25°C (77°F)



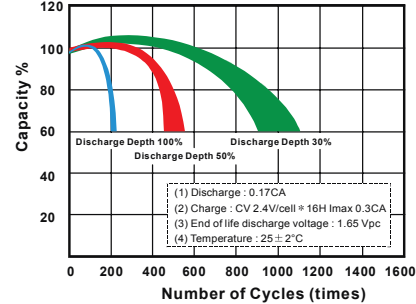
Capacity Retention Characteristic



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         | 153   | 164   | 172   | 183   | 194   |       |       |
| 10   | min         | 131   | 133   | 138   | 144   | 146   |       |       |
| 15   | min         | 103   | 105   | 108   | 110   | 112   |       |       |
| 20   | min         | 89.8  | 91.0  | 94.7  | 96.7  | 97.7  |       |       |
| 30   | min         | 62.4  | 64.4  | 66.3  | 67.4  | 68.5  |       |       |
| 45   | min         | 42.7  | 47.4  | 43.2  | 49.2  | 50.9  |       |       |
| 60   | min         | 36.8  | 41.4  | 42.0  | 42.5  | 43.5  |       |       |
| 90   | min         | 25.0  | 25.9  | 26.0  | 26.2  | 26.7  |       |       |
| 120  | min         | 19.8  | 21.1  | 21.3  | 21.5  | 21.7  |       |       |
| 180  | min         | 14.2  | 14.8  | 15.0  | 15.3  | 15.5  |       |       |
| 240  | min         | 11.9  | 12.1  | 12.2  | 12.3  | 12.5  |       |       |
| 300  | min         | 10.1  | 10.2  | 10.3  | 10.4  | 10.6  |       |       |
| 480  | min         | 6.80  | 7.20  | 7.28  | 7.53  | 7.68  |       |       |
| 600  | min         | 5.31  | 5.32  | 5.33  | 5.34  | 5.35  |       |       |
| 1200 | min         | 2.81  | 2.82  | 2.83  | 2.84  | 2.85  |       |       |

### - 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         | 83.0  | 88.5  | 93.0  | 99.0  | 105   |       |       |
| 10   | min         | 70.0  | 71.2  | 73.5  | 76.8  | 78.3  |       |       |
| 15   | min         | 53.6  | 54.7  | 56.0  | 57.0  | 58.1  |       |       |
| 20   | min         | 46.8  | 47.3  | 48.9  | 49.9  | 50.5  |       |       |
| 30   | min         | 32.2  | 33.3  | 34.1  | 34.9  | 36.0  |       |       |
| 45   | min         | 22.1  | 23.9  | 24.6  | 25.3  | 26.2  |       |       |
| 60   | min         | 18.7  | 21.2  | 21.7  | 22.2  | 22.9  |       |       |
| 90   | min         | 12.8  | 13.2  | 13.6  | 13.8  | 14.1  |       |       |
| 120  | min         | 10.2  | 10.7  | 10.8  | 10.9  | 11.0  |       |       |
| 180  | min         | 7.11  | 7.42  | 7.52  | 7.62  | 7.73  |       |       |
| 240  | min         | 5.92  | 5.97  | 6.20  | 6.31  | 6.42  |       |       |
| 300  | min         | 4.98  | 5.11  | 5.15  | 5.20  | 5.22  |       |       |
| 480  | min         | 3.38  | 3.47  | 3.49  | 3.53  | 3.55  |       |       |
| 600  | min         | 2.62  | 2.66  | 2.67  | 2.68  | 2.69  |       |       |
| 1200 | min         | 1.41  | 1.42  | 1.43  | 1.44  | 1.45  |       |       |

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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