

RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP12-6 (Artikel-Nr. 2003900)

Nominal Voltage (V) 6V

|                  |        |    |        |         |
|------------------|--------|----|--------|---------|
| Nominal Capacity |        |    |        |         |
| 20 hour rate     | (0.6A  | to | 5.25V) | 12.00Ah |
| 10 hour rate     | (1.14A | to | 5.25V) | 11.40Ah |
| 5 hour rate      | (2.04A | to | 5.1V)  | 10.20Ah |
| 1 C              | (12A   | to | 4.8V)  | 6.80Ah  |
| 3 C              | (36A   | to | 4.8V)  | 4.80Ah  |

Weight Approx. 1.9kg (4.19lbs)

Internal Resistance (at 1KHz) Approx. 6 mΩ

Maximum Discharge Current for  
5 seconds: 180A

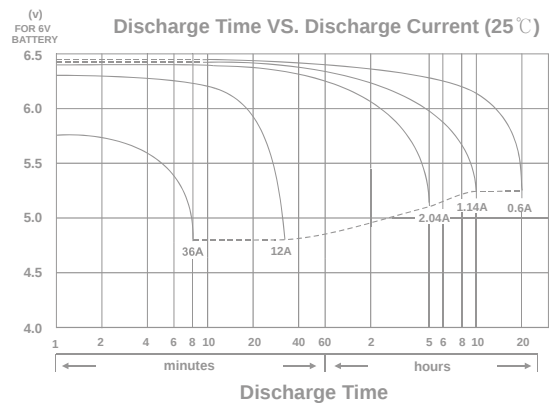
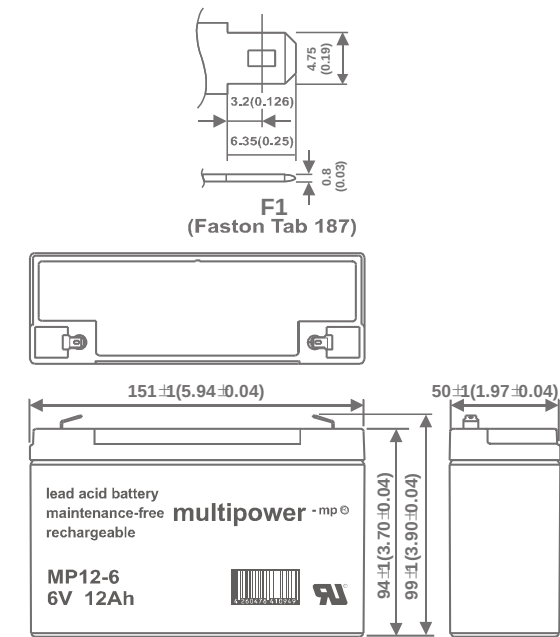
|                                 |                |
|---------------------------------|----------------|
| Charging Methods at 25°C (77°F) |                |
| Cycle use:                      |                |
| Charging Voltage                | 7.35V to 7.40V |
| Coefficient -5.0mV/°C/cell      |                |
| Maximum Charging Current:       | 3.6A           |
| 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 % |

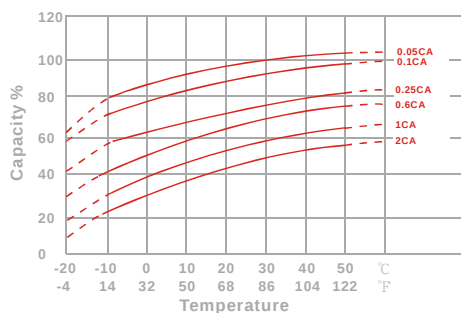
Case Material ABS  
(UL94 HB flame retardant case / cover)

Terminal F1 (Faston Tab 187)

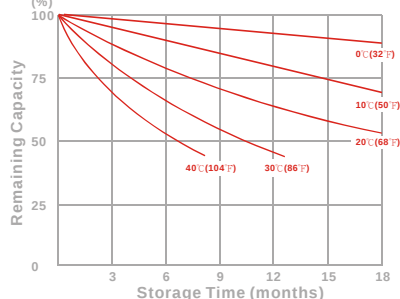


## CHARACTERISTIC & PERFORMANCE DATA

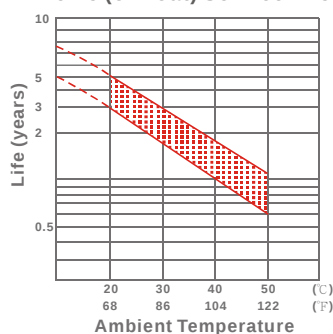
Effect of Temperature on Capacity 25°C (77°F)



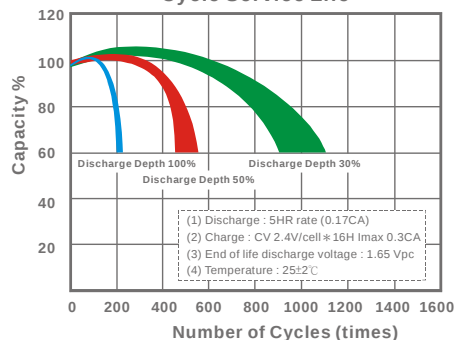
Capacity Retention Characteristic



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 | 72.5  | 77.9  | 80.3  | 81.9  | 84.0  | 85.7  | 87.5  |
| 10          | min | 47.7  | 52.4  | 54.0  | 55.1  | 56.8  | 57.5  | 58.9  |
| 15          | min | 39.5  | 41.5  | 42.8  | 43.7  | 45.0  | 45.9  | 46.2  |
| 30          | min | 22.2  | 24.0  | 24.7  | 25.2  | 26.5  | 27.0  | 27.4  |
| 60          | min | 13.5  | 14.4  | 14.8  | 15.1  | 15.4  | 15.7  | 15.9  |
| 120         | min | 7.85  | 8.51  | 8.77  | 8.95  | 9.01  | 9.29  | 9.40  |
| 180         | min | 5.88  | 5.95  | 6.35  | 6.37  | 6.40  | 6.45  | 6.58  |
| 240         | min | 4.75  | 4.80  | 4.85  | 4.87  | 4.92  | 4.94  | 4.98  |
| 300         | min | 3.92  | 4.15  | 4.28  | 4.32  | 4.35  | 4.40  | 4.44  |
| 600         | min | 2.10  | 2.21  | 2.28  | 2.33  | 2.39  | 2.44  | 2.47  |
| 1200        | min | 1.09  | 1.20  | 1.23  | 1.26  | 1.31  | 1.35  | 1.39  |

### - 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 | 39.5  | 41.2  | 44.3  | 45.2  | 46.7  | 47.1  | 47.8  |
| 10          | min | 27.1  | 30.0  | 31.8  | 32.4  | 33.1  | 33.4  | 33.7  |
| 15          | min | 20.2  | 21.0  | 22.3  | 22.4  | 23.2  | 23.4  | 23.6  |
| 30          | min | 12.0  | 12.3  | 13.0  | 13.5  | 13.7  | 13.8  | 14.1  |
| 60          | min | 7.32  | 7.56  | 8.02  | 8.18  | 8.34  | 8.42  | 8.45  |
| 120         | min | 3.95  | 4.15  | 4.40  | 4.49  | 4.58  | 4.62  | 4.66  |
| 180         | min | 2.95  | 3.00  | 3.11  | 3.17  | 3.24  | 3.26  | 3.29  |
| 240         | min | 2.30  | 2.33  | 2.47  | 2.52  | 2.57  | 2.59  | 2.62  |
| 300         | min | 1.85  | 1.95  | 2.07  | 2.11  | 2.15  | 2.17  | 2.21  |
| 600         | min | 1.13  | 1.16  | 1.20  | 1.22  | 1.25  | 1.26  | 1.31  |
| 1200        | min | 0.610 | 0.617 | 0.630 | 0.645 | 0.665 | 0.670 | 0.692 |

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%)