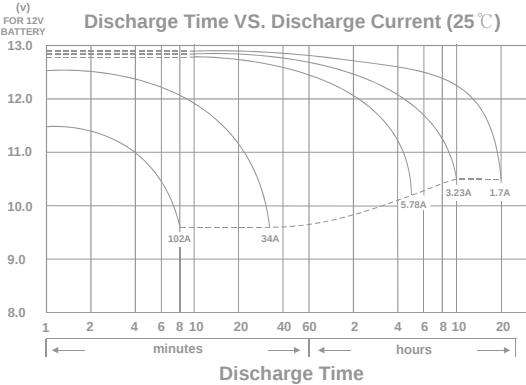
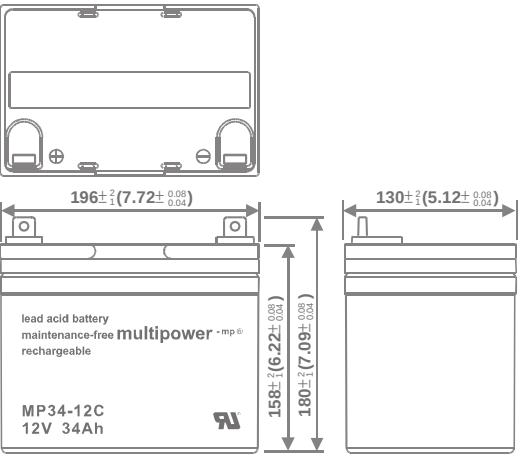
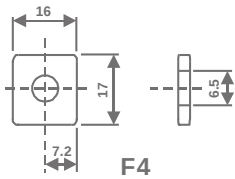


RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



MP34-12C (Artikel-Nr. 2003927)

Nominal Voltage (V) 12V

Nominal Capacity

|              |        |    |         |         |
|--------------|--------|----|---------|---------|
| 20 hour rate | (1.7A  | to | 10.50V) | 34.00Ah |
| 10 hour rate | (3.23A | to | 10.50V) | 32.30Ah |
| 5 hour rate  | (5.78A | to | 10.20V) | 28.90Ah |
| 1 C          | (34A   | to | 9.60V)  | 19.27Ah |
| 3 C          | (102A  | to | 9.60V)  | 13.60Ah |

Weight Approx. 10.5kg (23.1lbs)

Internal Resistance (at 1KHz) Approx. 9.5 mΩ

Maximum Discharge Current for

5 seconds: 510A

Charging Methods at 25°C (77°F)

|                            |                  |
|----------------------------|------------------|
| Cycle use:                 |                  |
| Charging Voltage           | 14.70V to 14.80V |
| Coefficient -5.0mV/°C/cell |                  |
| Maximum Charging Current:  | 10.2A            |
| Standby use:               |                  |
| Float Charging Voltage     | 13.50V to 13.80V |
| 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)

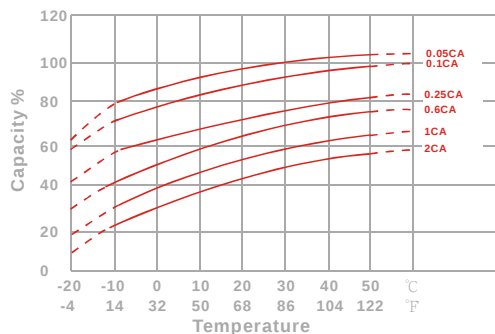
|         |     |
|---------|-----|
| 1 month | 92% |
| 3 month | 90% |
| 6 month | 80% |

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

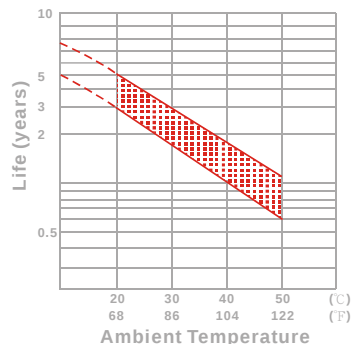
Terminal F4

## CHARACTERISTIC & PERFORMANCE DATA

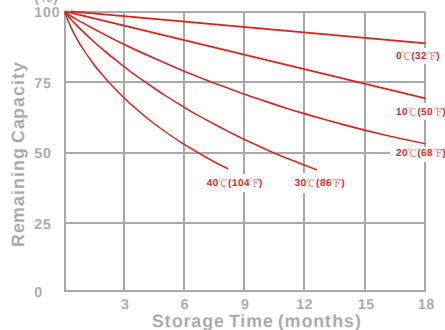
Effect of Temperature on Capacity 25°C (77°F)



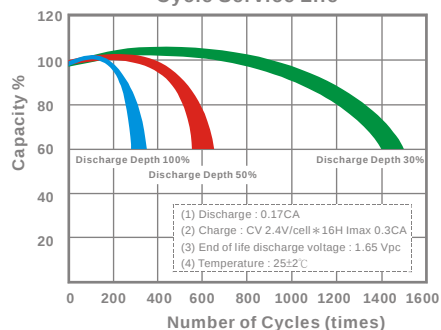
Trickle (or float) Service Life



Capacity Retention Characteristic



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 | 116   | 158   | 188   | 208   | 215   | 222   | 231   |
| 10          | min | 82.3  | 109   | 129   | 141   | 145   | 150   | 155   |
| 15          | min | 67.9  | 88.2  | 103   | 113   | 115   | 119   | 123   |
| 30          | min | 36.4  | 47.5  | 55.7  | 60.8  | 62.4  | 64.4  | 66.6  |
| 60          | min | 30.7  | 34.8  | 37.0  | 38.5  | 39.0  | 39.5  | 40.0  |
| 120         | min | 19.2  | 21.0  | 22.5  | 23.7  | 24.0  | 24.5  | 24.8  |
| 180         | min | 14.6  | 15.6  | 16.3  | 16.7  | 16.8  | 17.0  | 17.2  |
| 240         | min | 12.1  | 12.8  | 13.3  | 13.6  | 13.8  | 13.9  | 14.0  |
| 300         | min | 10.5  | 11.2  | 11.6  | 11.9  | 12.0  | 12.1  | 12.2  |
| 600         | min | 6.27  | 6.67  | 6.93  | 7.07  | 7.13  | 7.20  | 7.27  |
| 1200        | min | 3.32  | 3.50  | 3.65  | 3.72  | 3.75  | 3.78  | 3.82  |

### - 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 | 84.0  | 104   | 119   | 127   | 130   | 134   | 138   |
| 10          | min | 59.2  | 68.9  | 74.9  | 79.1  | 80.8  | 83.3  | 86.4  |
| 15          | min | 46.5  | 53.8  | 58.5  | 61.1  | 61.9  | 62.9  | 64.2  |
| 30          | min | 27.8  | 31.7  | 33.2  | 34.5  | 34.9  | 35.4  | 36.0  |
| 60          | min | 16.9  | 18.2  | 19.1  | 19.8  | 20.0  | 20.3  | 20.6  |
| 120         | min | 10.2  | 11.0  | 11.5  | 11.9  | 12.0  | 12.2  | 12.4  |
| 180         | min | 7.26  | 7.85  | 8.31  | 8.47  | 8.53  | 8.62  | 8.76  |
| 240         | min | 5.68  | 6.14  | 6.51  | 6.69  | 6.74  | 6.81  | 6.91  |
| 300         | min | 5.31  | 5.59  | 5.76  | 5.89  | 5.94  | 6.01  | 6.08  |
| 600         | min | 3.11  | 3.23  | 3.34  | 3.42  | 3.45  | 3.48  | 3.52  |
| 1200        | min | 1.62  | 1.70  | 1.75  | 1.79  | 1.80  | 1.82  | 1.84  |

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%)