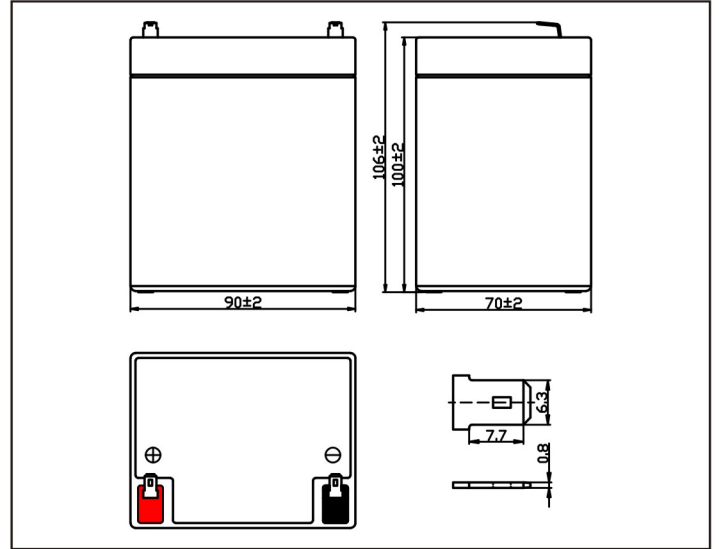


**MODEL: MPT5-12**



**Plane Chart:**

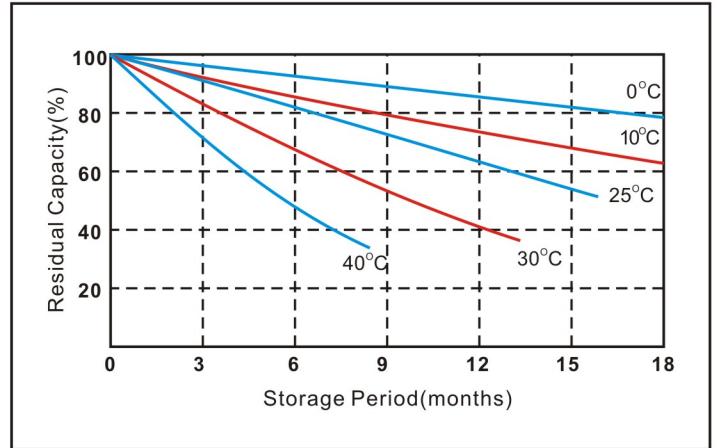
Unit:(mm) Terminal type:(F2)



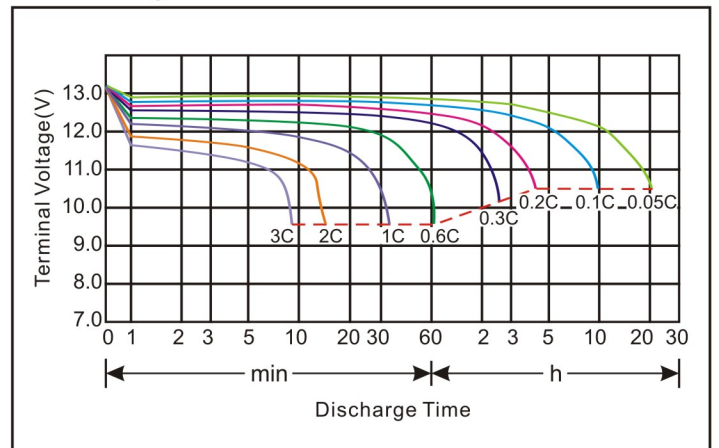
**Parameter Chart:**

| Volts                            |                                    | 12V   |  |
|----------------------------------|------------------------------------|---|--|
| Capacity(25°C)                   | 20 hours rate (0.25A)              | 5Ah   |  |
| Discharge Current Testing (25°C) | 20 I <sub>20</sub> rate (5A,27min) | 36min   |  |
|                                  | 60 I <sub>20</sub> rate (15A,7min) | 8min  |  |
| Internal Resistance              | Full Charged Battery 25°C          | 26mΩ  |  |
| Capacity Affected By Temperature | 40°C                               | 104%  |  |
|                                  | 25°C                               | 100%  |  |
|                                  | 0°C                                | 83%   |  |
|                                  | -15°C                              | 65%   |  |
| Residual Capacity (25°C)         | Capacity After 3 Months Storage    | 91%   |  |
|                                  | Capacity After 6 Months Storage    | 82%   |  |
|                                  | Capacity After 12 Months Storage   | 65%   |  |
| Charge (Constant Voltage)        | Cycle (25°C)                       | Initial Charging Current Less Than 1.5A<br>Voltage 14.5~14.9V |  |
|                                  | Float (25°C)                       | Charge Voltage 13.6~13.8V                                     |  |
| Weight (Approx)                  |                                    | 1.68Kg  |  |

**Residual Capacity**



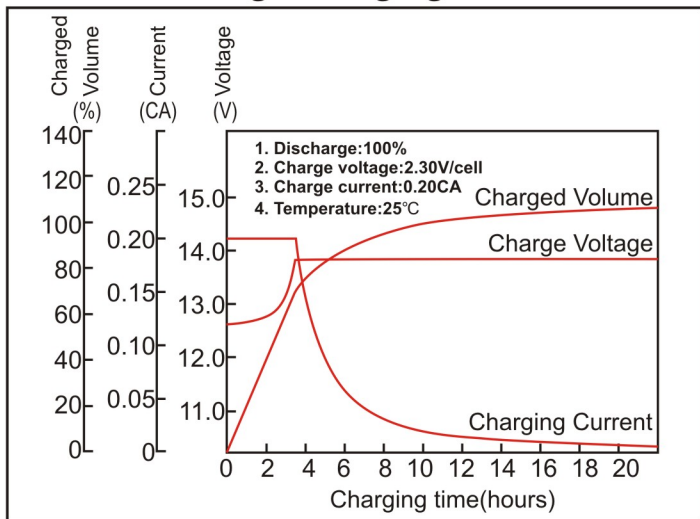
**Discharge Current 25°C**



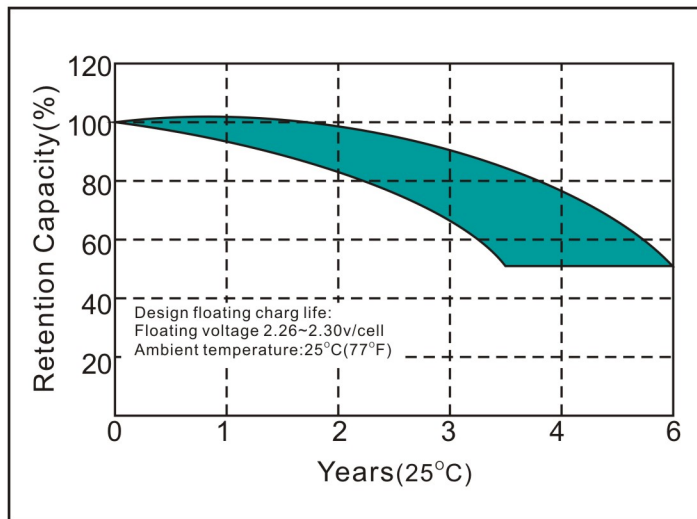
★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

## MODEL: MPT5-12

### Constant voltage charging characteristics



### Float Life



### Constant Current Discharge Characteristics (A, 25°C)

| F.V/Time | 5min  | 10min | 15min | 30min | 60min | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V    | 21.50 | 13.50 | 9.45  | 5.73  | 3.19  | 1.83 | 1.33 | 0.86 | 0.56 | 0.47 | 0.26 |
| 10.2V    | 19.10 | 12.60 | 9.07  | 5.50  | 3.06  | 1.79 | 1.31 | 0.85 | 0.56 | 0.46 | 0.26 |
| 10.5V    | 17.70 | 12.20 | 8.85  | 5.37  | 2.99  | 1.77 | 1.29 | 0.84 | 0.55 | 0.45 | 0.25 |
| 10.8V    | 16.90 | 11.60 | 8.63  | 5.23  | 2.91  | 1.75 | 1.27 | 0.84 | 0.55 | 0.45 | 0.25 |

### Constant Current Discharge Characteristics (Watt, 25°C)

| F.V/Time | 5min   | 10min  | 15min  | 30min | 60min | 2h    | 3h    | 5h    | 8h   | 10h  | 20h  |
|----------|--------|--------|--------|-------|-------|-------|-------|-------|------|------|------|
| 9.60V    | 232.20 | 147.15 | 103.95 | 64.18 | 36.37 | 21.05 | 15.43 | 10.08 | 6.61 | 5.49 | 3.09 |
| 10.2V    | 210.10 | 139.86 | 101.58 | 62.15 | 34.88 | 20.59 | 15.20 | 9.96  | 6.61 | 5.37 | 3.05 |
| 10.5V    | 196.47 | 136.64 | 100.01 | 61.22 | 34.39 | 20.71 | 15.09 | 9.93  | 6.50 | 5.30 | 3.02 |
| 10.8V    | 189.28 | 131.08 | 98.38  | 60.15 | 33.47 | 20.48 | 14.86 | 9.91  | 6.55 | 5.36 | 2.98 |

### Capacity Factors With Different Temperature

| Battery Type |     | -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|--------------|-----|-------|-------|-----|-----|------|------|------|------|------|------|
| Battery      | 12V | 50%   | 70%   | 83% | 85% | 90%  | 98%  | 100% | 102% | 104% | 105% |

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.