

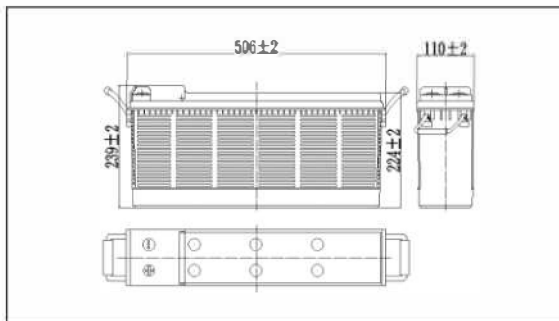
## FT12-105Ah 12V105Ah



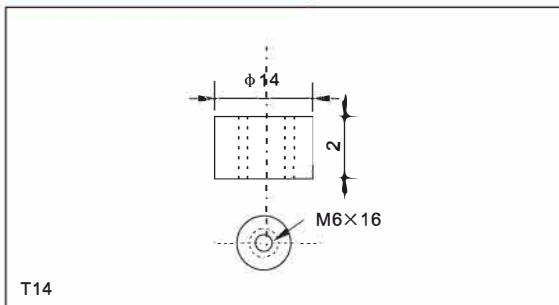
### Specifications

|                               |              |                    |
|-------------------------------|--------------|--------------------|
| Nominal Voltage               |              | 12V                |
| Rated capacity (10 hour rate) |              | 105Ah              |
| Dimensions                    | Length       | 506±2mm(19.92inch) |
|                               | Width        | 110±2mm(4.33inch)  |
|                               | Height       | 224±2mm(8.82inch)  |
|                               | Total Height | 239±2mm(9.41inch)  |
| Approx. Weight                |              | 32kg(70.5lbs)±3%   |

### Outer dimensions (mm)



### Terminal Type (mm)



T14

### Characteristics

|  |             |   |
|--|-------------|---|
| Capacity (25°C)                          | 10HR(10.8V) | 105Ah   |
|  | 3HR(10.8V)  | 79Ah  |
|  | 1HR(10.5V)  | 58Ah  |
| Terminal type                            |             | T14   |
| Internal resistance (Fully charged,25°C) |             | Approx.5m Ω   |
| Capacity affected by temperature (10HR)  | 40°C        | 102%  |
|  | 25°C        | 100%  |
|  | 0°C         | 85%   |
|  | -15°C       | 65%   |
| Self-discharge (25°C)                    | 3 months    | Remaining Capacity:91%                                |
|  | 6 months    | Remaining Capacity:82%                                |
|  | 12 months   | Remaining Capacity:65%                                |
| Nominal operating temperature            |             | 25°C ±3°C(77°F ±5°F)                                  |
| Operating temperature range              | Discharge   | -15°C~50°C(5°F~122°F)                                 |
|  | Charge      | -10°C~50°C(14°F~122°F)                                |
|  | Storage     | -20°C~50°C(-4°F~122°F)                                |
| Float charging voltage(25°C)             |             | 13.50 to 13.80V<br>Temperature compensation: -18mV/°C |
| Cyclic charging voltage(25°C)            |             | 14.50 to 15.00V<br>Temperature compensation: -30mV/°C |
| Maximum charging current                 |             | 31.5A   |
| Maximum discharge current                |             | 800A(5 sec.)  |
| Designed floating life(20°C)             |             | 12years   |

### Construction

| Component    | Positive plate | Negative plate | Container | Cover | Separator | Electrolyte   | Safety valve | Terminal |
|--------------|----------------|----------------|-----------|-------|-----------|---------------|--------------|----------|
| Raw material | lead dioxide   | Lead           | ABS       | ABS   | AGM       | Sulfuric acid | Rubber       | Copper   |

### Constant Current Discharge Characteristics Unit:A(25°C,77°F)

| F.V/Time | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V    | 224   | 173   | 103   | 63.6  | 38.4 | 27.6 | 22.1 | 18.8 | 13.0 | 10.7 | 5.67 |
| 9.90V    | 218   | 169   | 101   | 62.6  | 38.1 | 27.5 | 21.9 | 18.7 | 12.9 | 10.7 | 5.65 |
| 10.2V    | 209   | 162   | 98.2  | 61.0  | 37.8 | 27.3 | 21.8 | 18.6 | 12.8 | 10.6 | 5.64 |
| 10.5V    | 200   | 157   | 95.9  | 59.1  | 37.2 | 27.1 | 21.6 | 18.5 | 12.7 | 10.6 | 5.60 |
| 10.8V    | 188   | 149   | 92.3  | 57.2  | 36.3 | 26.3 | 21.0 | 17.9 | 12.3 | 10.5 | 5.57 |

### Constant Power Discharge Characteristics Unit:W(25°C,77°F)

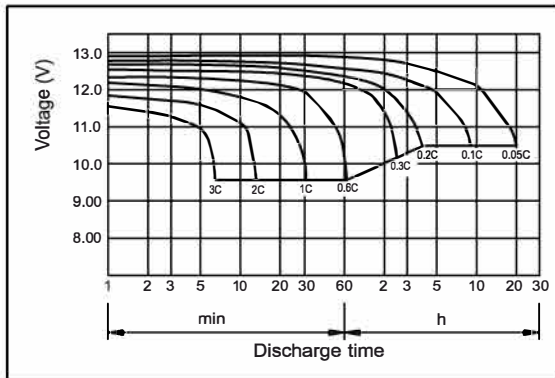
| F.V/Time | 10min | 15min | 30min | 60min | 2h  | 3h  | 4h  | 5h  | 8h  | 10h | 20h  |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|------|
| 9.60V    | 2423  | 1898  | 1160  | 725   | 444 | 325 | 259 | 223 | 154 | 128 | 68.0 |
| 9.90V    | 2350  | 1853  | 1137  | 714   | 442 | 323 | 258 | 221 | 153 | 127 | 67.8 |
| 10.2V    | 2253  | 1784  | 1102  | 696   | 438 | 321 | 256 | 220 | 152 | 127 | 67.6 |
| 10.5V    | 2156  | 1724  | 1076  | 674   | 431 | 319 | 254 | 218 | 151 | 126 | 67.2 |
| 10.8V    | 2035  | 1632  | 1036  | 652   | 420 | 309 | 247 | 212 | 146 | 125 | 66.8 |

Note: The above characteristics data can be obtained within three charge or discharge cycles.

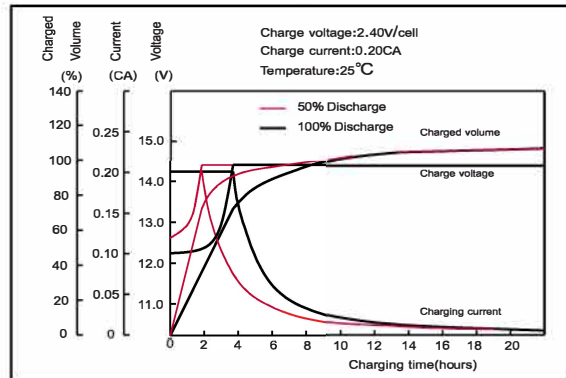


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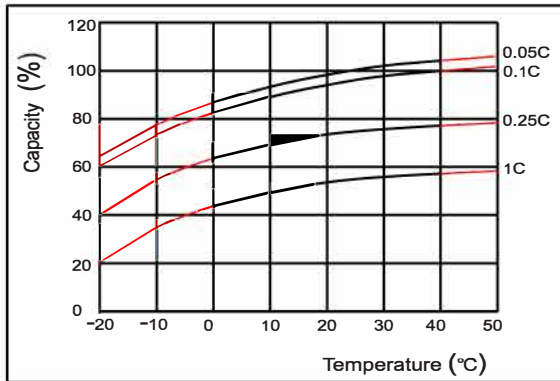
**● Discharge characteristics(25°C)**



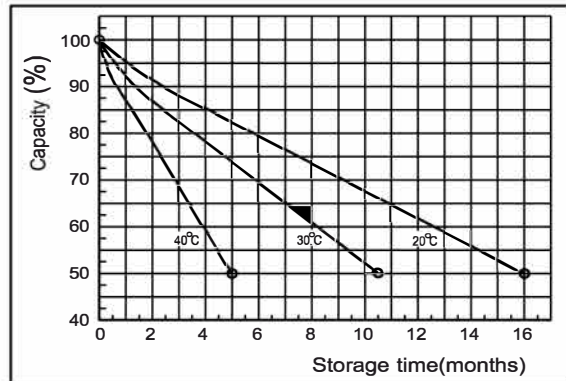
**● Charging characteristics**



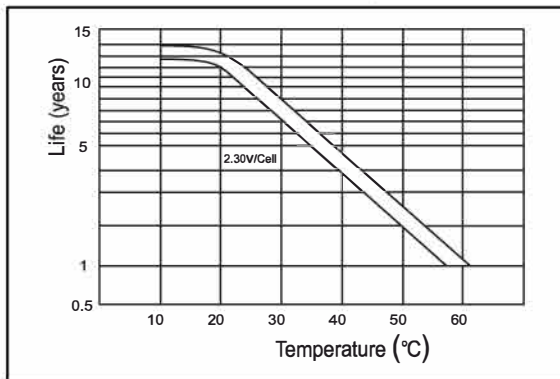
**● Temperature effects on Capacity**



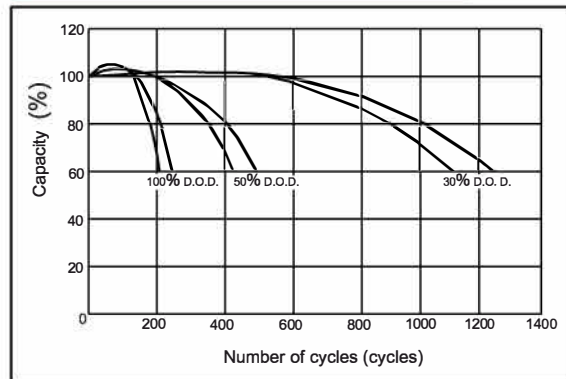
**● Self-discharge characteristics**



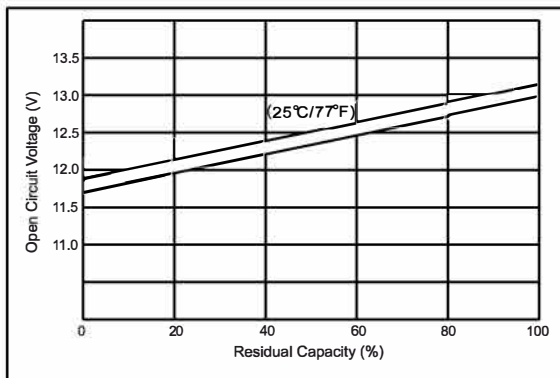
**● Temperature effects on float life**



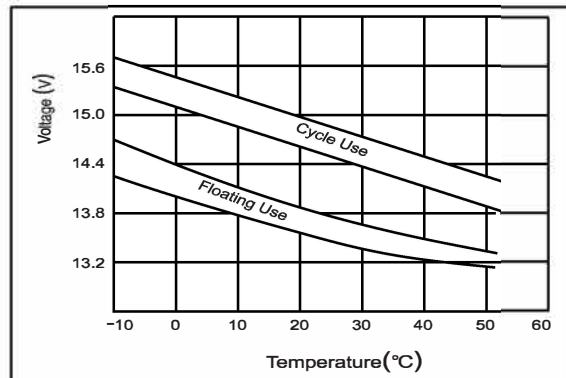
**● Cycle service life in relation to depth of discharge**



**● The relationship for OCV and Capacity (25°C)**



**● The relationship for Charging voltage and Temperature**



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