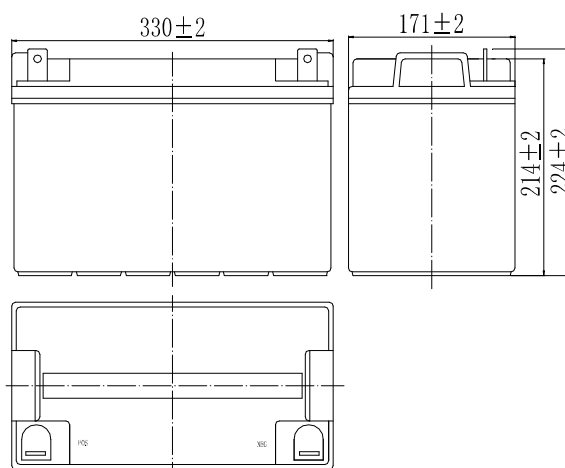


**Specifications**

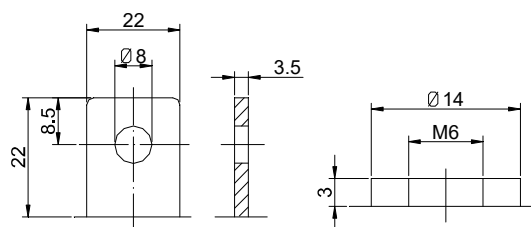
|                                           |              |                                                       |
|-------------------------------------------|--------------|-------------------------------------------------------|
| Nominal Voltage                           |              | 12 V                                                  |
| Capacity (25°C)                           | 10HR(10.8V)  | 100 Ah                                                |
|                                           | 5HR(10.5V)   | 87Ah                                                  |
|                                           | 1HR(9.60V)   | 62Ah                                                  |
| Dimension                                 | Length       | 330 ± 2mm (12.99inch)                                 |
|                                           | Width        | 171 ± 2mm (6.73inch)                                  |
|                                           | Height       | 214 ± 2mm (8.43inch)                                  |
|                                           | Total Height | T5: 224 ± 2mm (8.82inch)                              |
| T9: 220 ± 2mm (8.66inch)                  |              |                                                       |
| Approx. Weight                            |              | 32kg (70.6lbs) ± 4%                                   |
| Terminal type                             |              | T5/T9                                                 |
| Internal resistance (Fully charged, 25°C) |              | Approx. 4.5m Ω                                        |
| Capacity affected by temperature (10HR)   | 40°C         | 102%                                                  |
|                                           | 25°C         | 100%                                                  |
|                                           | 0°C          | 85%                                                   |
|                                           | -15°C        | 65%                                                   |
| Self-discharge (25°C)                     | 3 month      | Remaining Capacity: 91%                               |
|                                           | 6 month      | Remaining Capacity: 82%                               |
|                                           | 12 month     | 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 14.90V<br>Temperature compensation: -30mV/°C |
| Maximum charging current                  |              | 30A                                                   |
| Terminal material                         |              | Copper                                                |
| Maximum discharge current                 |              | 800A(5 sec.)                                          |
| Designed floating life(20°C)              |              | 15 years                                              |



**Dimensions**



**Terminal**



Terminal T5

Terminal T9

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

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

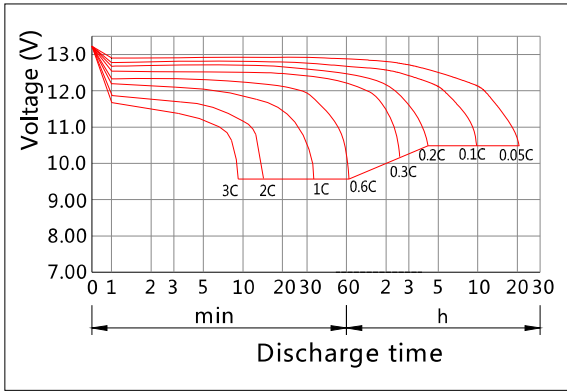
| F.V/TIME | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V    | 204   | 162   | 98.0  | 62.0  | 36.5 | 25.5 | 20.9 | 17.9 | 12.2 | 10.2 | 5.34 |
| 9.90V    | 198   | 158   | 96.0  | 61.1  | 36.3 | 25.4 | 20.8 | 17.7 | 12.2 | 10.2 | 5.33 |
| 10.2V    | 189   | 152   | 93.1  | 59.5  | 36.0 | 25.2 | 20.6 | 17.6 | 12.1 | 10.1 | 5.32 |
| 10.5V    | 181   | 147   | 90.8  | 58.3  | 35.5 | 25.0 | 20.5 | 17.5 | 12.0 | 10.1 | 5.29 |
| 10.8V    | 171   | 139   | 87.5  | 56.5  | 34.6 | 24.3 | 19.9 | 17.0 | 11.6 | 10.0 | 5.25 |

**Constant Power Discharge Characteristics (Watt, 25°C)**

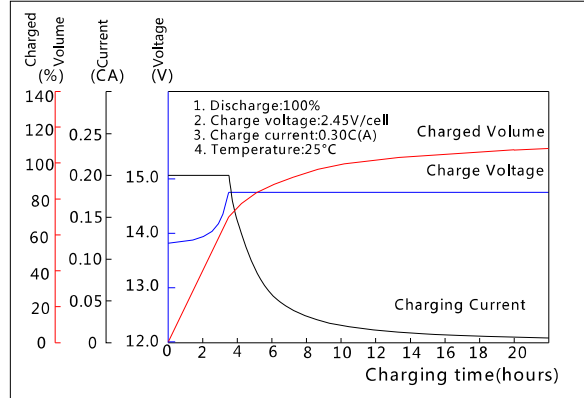
| F.V/TIME | 10min | 15min | 30min | 60min | 2h  | 3h  | 4h  | 5h  | 8h  | 10h | 20h  |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|------|
| 9.60V    | 2200  | 1775  | 1100  | 707   | 423 | 300 | 246 | 211 | 145 | 122 | 64.1 |
| 9.90V    | 2134  | 1733  | 1078  | 696   | 421 | 298 | 244 | 210 | 145 | 121 | 64.0 |
| 10.2V    | 2046  | 1669  | 1045  | 679   | 417 | 296 | 243 | 208 | 144 | 121 | 63.8 |
| 10.5V    | 1958  | 1612  | 1019  | 665   | 411 | 294 | 241 | 207 | 143 | 120 | 63.4 |
| 10.8V    | 1848  | 1527  | 982   | 645   | 400 | 285 | 234 | 201 | 138 | 119 | 63.0 |

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

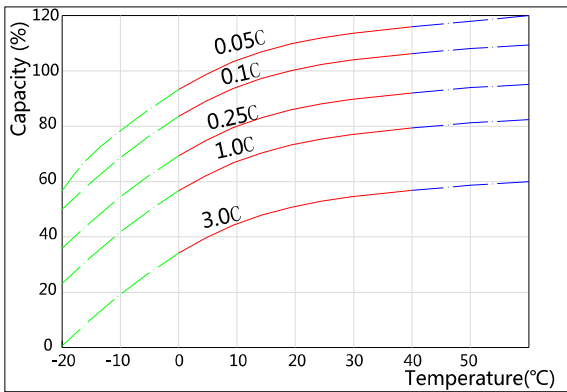
**Discharge Characteristics(25°C)**



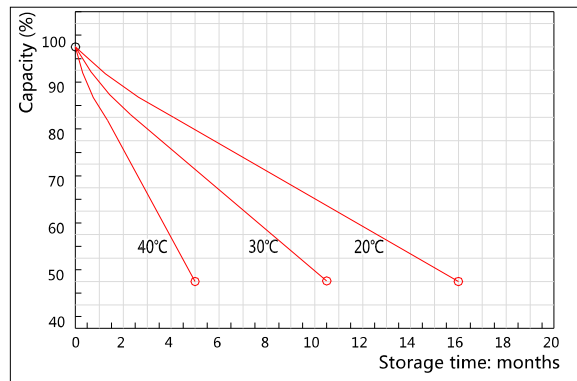
**Charging Characteristics(25°C)**



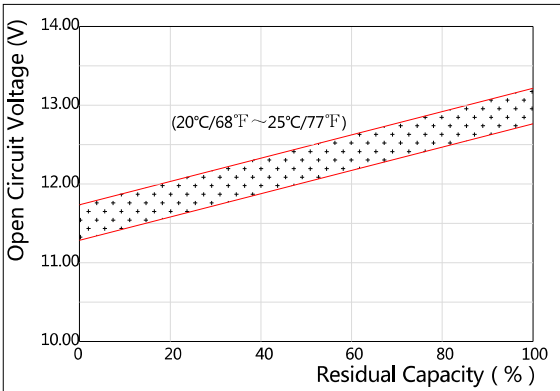
**Effect of Temperature on Capacity**



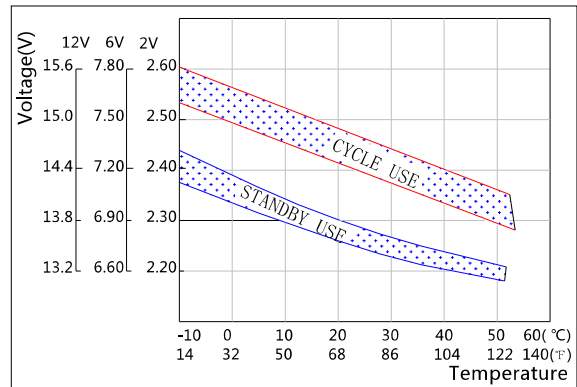
**Self-discharge Characteristics**



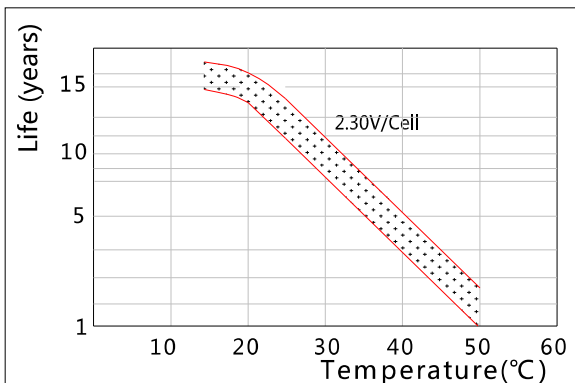
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**

