

### ⚡ Specifications

#### Nominal Voltage(V)

12V

#### Nominal Capacity

|              |         |    |         |         |
|--------------|---------|----|---------|---------|
| 20 hour rate | (3.1A   | to | 10.50V) | 62Ah    |
| 10 hour rate | (6.2A   | to | 10.80V) | 62Ah    |
| 5 hour rate  | (10.54A | to | 10.20V) | 52.7Ah  |
| 1 hour rate  | (37.2A  | to | 9.60V)  | 37.2Ah  |
| 1 C          | (62A    | to | 9.60V)  | 35.13Ah |

#### Weight

Approx. 18.7kg(41.14Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 6.8 mΩ

#### Maximum Discharge Current for

5 seconds: 744A

#### Charging Methods at 25°C(77°F)

|                            |                |
|----------------------------|----------------|
| Cycle use:                 |                |
| Charging Voltage           | 14.4 to 15.0V  |
| Coefficient                | -5.0mV/°C/cell |
| Maximum Charging Current : | 18.6A          |
| Standby use:               |                |
| Float Charging Voltage     | 13.5 to 13.8V  |
| 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 | 98% |
| 3 month | 94% |
| 6 month | 85% |

#### Case Material

ABS UL94 HB  
Option: Flammability resistance of (UL94 V-0)

#### Design Life

3-5 Years.

#### Terminal

F15



### ⚡ Dimensions

#### Length (L)

226±<sup>±2</sup>(8.90±<sup>±0.08</sup><sub>-0.04</sub>)

#### Width (W)

135±<sup>±2</sup>(5.31±<sup>±0.08</sup><sub>-0.04</sub>)

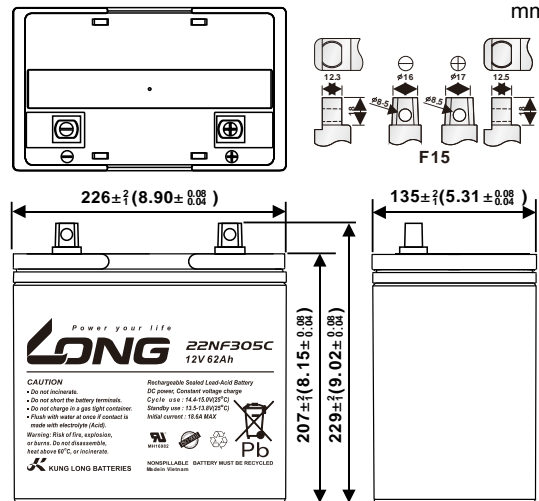
#### Height (H)

207±<sup>±2</sup>(8.15±<sup>±0.08</sup><sub>-0.04</sub>)

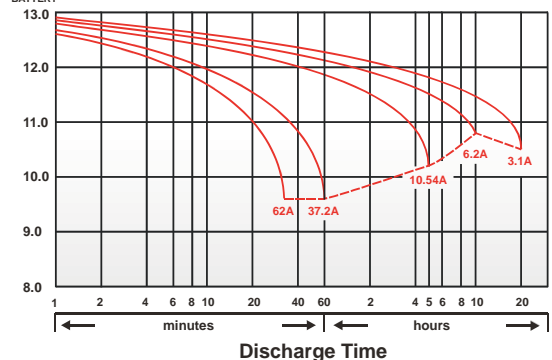
#### Overall Height (HT)

229±<sup>±2</sup>(9.02±<sup>±0.08</sup><sub>-0.04</sub>)

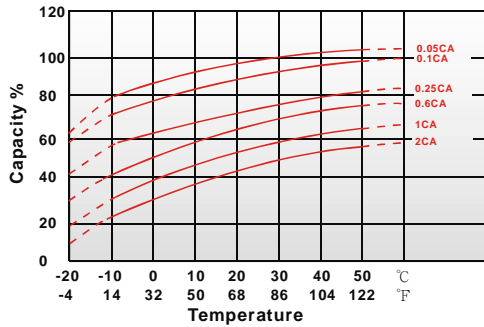
mm(inch)



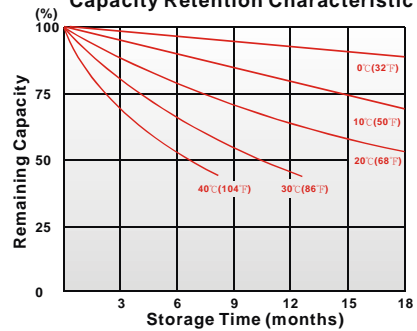
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



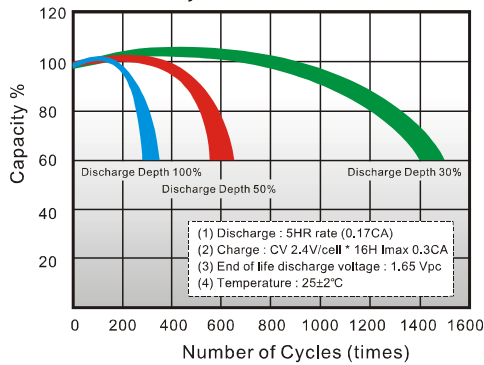
Effect of Temperature on Capacity 25°C (77°F)



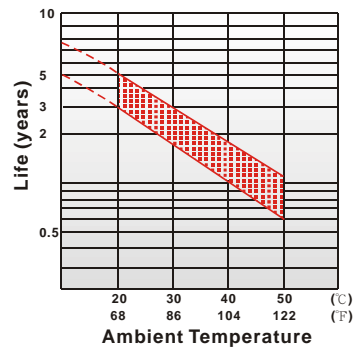
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) 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 | 211   | 326   | 393   | 438   | 450   | 464   | 479   |
| 10          | min | 131   | 207   | 249   | 278   | 285   | 294   | 304   |
| 15          | min | 110   | 157   | 185   | 203   | 208   | 214   | 220   |
| 30          | min | 68.8  | 88.7  | 101   | 111   | 114   | 117   | 121   |
| 60          | min | 57.7  | 70.7  | 72.9  | 74.3  | 74.7  | 75.2  | 75.9  |
| 120         | min | 36.0  | 37.5  | 38.6  | 39.3  | 39.5  | 39.8  | 40.2  |
| 180         | min | 28.9  | 30.1  | 31.0  | 31.6  | 31.8  | 32.0  | 32.3  |
| 240         | min | 23.2  | 24.2  | 24.9  | 25.4  | 25.5  | 25.7  | 25.9  |
| 300         | min | 19.7  | 20.6  | 21.2  | 21.6  | 21.7  | 21.9  | 22.1  |
| 600         | min | 11.7  | 12.1  | 12.5  | 12.7  | 12.8  | 12.9  | 13.0  |
| 1200        | min | 6.12  | 6.37  | 6.56  | 6.69  | 6.73  | 6.78  | 6.84  |

**- 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 | 120   | 189   | 228   | 254   | 261   | 269   | 278   |
| 10          | min | 74.9  | 118   | 142   | 159   | 163   | 168   | 174   |
| 15          | min | 57.3  | 85.4  | 101   | 111   | 114   | 117   | 120   |
| 30          | min | 43.6  | 51.7  | 59.8  | 64.0  | 64.8  | 67.1  | 72.4  |
| 60          | min | 32.5  | 35.9  | 37.6  | 38.9  | 39.4  | 40.0  | 40.6  |
| 120         | min | 19.3  | 20.7  | 21.8  | 22.7  | 23.0  | 23.5  | 24.1  |
| 180         | min | 13.3  | 14.5  | 15.6  | 16.1  | 16.3  | 16.6  | 16.9  |
| 240         | min | 11.3  | 11.9  | 12.5  | 13.1  | 13.2  | 13.4  | 13.6  |
| 300         | min | 10.3  | 10.7  | 11.0  | 11.2  | 11.3  | 11.4  | 11.5  |
| 600         | min | 5.96  | 6.20  | 6.38  | 6.50  | 6.53  | 6.58  | 6.64  |
| 1200        | min | 3.03  | 3.16  | 3.26  | 3.32  | 3.34  | 3.36  | 3.39  |

All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min ≤ X<10min(+12%~-12%), 10min ≤ X<60min(+8%~-8%), X ≥ 60min(+5%~-5%)

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