

### ⚡ Specifications

#### Nominal Voltage(V)

12V

#### Nominal Capacity

|              |                    |         |
|--------------|--------------------|---------|
| 20 hour rate | (2.75A to 10.50V)  | 55Ah    |
| 10 hour rate | (5.225A to 10.50V) | 52.25Ah |
| 5 hour rate  | (9.35A to 10.20V)  | 46.75Ah |
| 1 C          | (55A to 9.60V)     | 31.17Ah |
| 3 C          | (165A to 9.60V)    | 22Ah    |

#### Weight

Approx. 17.1kg(37.62Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 6 mΩ

#### Maximum Discharge Current for

5 seconds: 660A

#### Charging Methods at 25°C(77°F)

|                            |                |
|----------------------------|----------------|
| Cycle use:                 |                |
| Charging Voltage           | 14.4 to 15.0V  |
| Coefficient                | -5.0mV/°C/cell |
| Maximum Charging Current : | 16.5A          |
| 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 | 97% |
| 3 month | 92% |
| 6 month | 85% |

#### Case Material

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

#### Design Life

EUROBAT(20°C): 3-5 YEARS STANDARD COMMERCIAL

#### Terminal

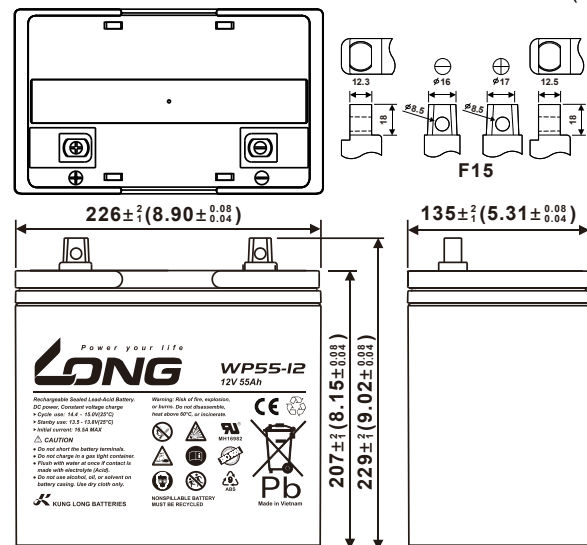
F15



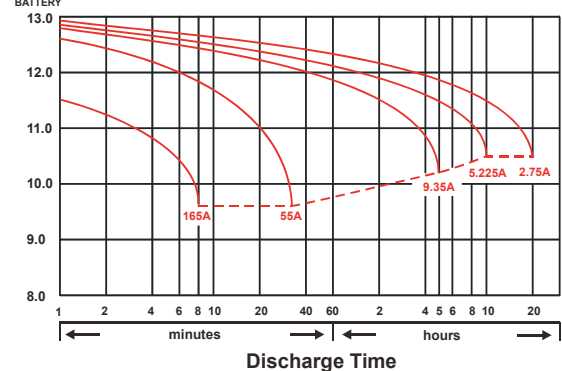
### ⚡ Dimensions

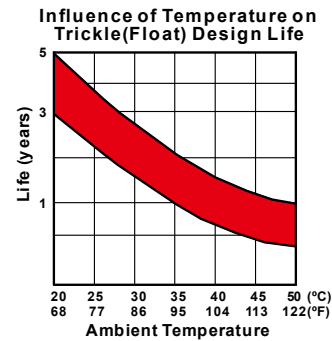
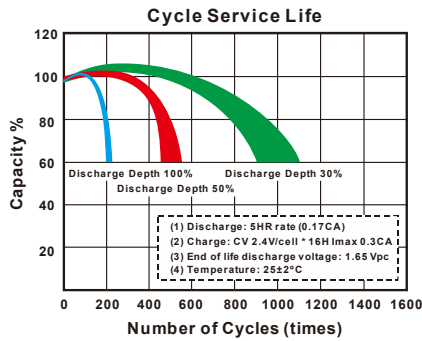
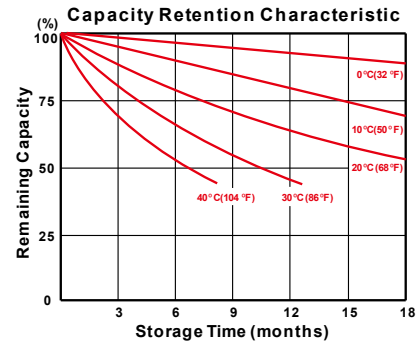
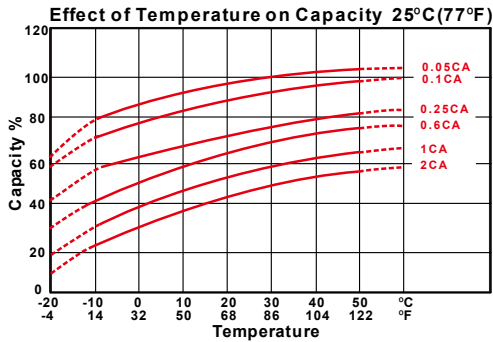
|                     |   |
|---------------------|---|
| Length (L)          | 226 ± <sub>1</sub> <sup>2</sup> (8.90 ± <sub>0.04</sub> <sup>0.08</sup> ) |
| Width (W)           | 135 ± <sub>1</sub> <sup>2</sup> (5.31 ± <sub>0.04</sub> <sup>0.08</sup> ) |
| Height (H)          | 207 ± <sub>1</sub> <sup>2</sup> (8.15 ± <sub>0.04</sub> <sup>0.08</sup> ) |
| Overall Height (HT) | 229 ± <sub>1</sub> <sup>2</sup> (9.02 ± <sub>0.04</sub> <sup>0.08</sup> ) |

mm(inch)



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





### - 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        |     |       |       |       |       |       |       |       |
| 10          | min | 221   | 246   | 266   | 284   | 296   | 305   | 311   |
| 15          | min | 196   | 211   | 222   | 226   | 229   | 231   | 233   |
| 30          | min | 119   | 124   | 128   | 132   | 135   | 138   | 140   |
| 60          | min | 65.0  | 67.4  | 69.6  | 71.5  | 72.1  | 72.4  | 72.6  |
| 120         | min | 33.3  | 35.5  | 37.1  | 37.8  | 38.3  | 38.7  | 39.1  |
| 180         | min | 26.8  | 28.7  | 29.7  | 30.2  | 30.6  | 30.9  | 31.2  |
| 240         | min | 21.9  | 22.9  | 23.8  | 24.2  | 24.5  | 24.7  | 24.9  |
| 300         | min | 18.4  | 19.3  | 20.1  | 20.4  | 20.5  | 20.7  | 20.9  |
| 480         | min | 12.0  | 12.6  | 13.0  | 13.3  | 13.5  | 13.6  | 13.7  |
| 600         | min | 10.7  | 11.1  | 11.5  | 11.7  | 11.8  | 12.0  | 12.1  |
| 1200        | min | 5.51  | 5.75  | 5.96  | 6.04  | 6.09  | 6.14  | 6.19  |

#### - 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        |     |       |       |       |       |       |       |       |
| 10          | min | 117   | 136   | 147   | 153   | 158   | 162   | 164   |
| 15          | min | 91.3  | 100   | 105   | 110   | 114   | 116   | 118   |
| 30          | min | 57.9  | 63.1  | 65.7  | 67.4  | 69.2  | 70.7  | 71.6  |
| 60          | min | 29.2  | 32.5  | 34.3  | 34.9  | 35.4  | 35.8  | 36.2  |
| 120         | min | 16.8  | 18.1  | 19.0  | 19.5  | 19.9  | 20.2  | 20.4  |
| 180         | min | 12.7  | 13.5  | 14.0  | 14.3  | 14.5  | 14.7  | 14.9  |
| 240         | min | 10.8  | 11.2  | 11.6  | 11.8  | 12.0  | 12.2  | 12.4  |
| 300         | min | 8.95  | 9.34  | 9.53  | 9.67  | 9.80  | 9.89  | 10.0  |
| 480         | min | 5.79  | 6.09  | 6.36  | 6.40  | 6.42  | 6.43  | 6.44  |
| 600         | min | 5.30  | 5.41  | 5.51  | 5.57  | 5.62  | 5.68  | 5.73  |
| 1200        | min | 2.74  | 2.78  | 2.81  | 2.85  | 2.88  | 2.91  | 2.94  |

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%)

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