Power your life

# Valve Regulated Lead Acid Battery

# WPO.7-12

## Specifications

### Nominal Voltage(V)

12V

### Nominal Capacity

| | | | | |
|---|---|---|---|---|
| 20 hour rate | (0.035A | to | 10.50V) | 0.7Ah |
| 10 hour rate | (0.067A | to | 10.50V) | 0.665Ah |
| 5 hour rate | (0.119A | to | 10.20V) | 0.595Ah |
| 1 C | (0.7A | to | 9.60V) | 0.397Ah |
| 3 C | (2.1A | to | 9.60V) | 0.28Ah |

### Weight

Approx. 364g(0.8Lbs.)

### Internal Resistance (at 1KHz)

Approx. 125 mΩ

### Maximum Discharge Current for

5 seconds: 10.5A

### Charging Methods at 25℃(77℉)

| | |
|---|---|
| Cycle use: | |
| Charging Voltage | 14.4 to 15.0V |
| Coefficient -5.0mV/℃/cell | |
| Maximum Charging Current： | 0.21A |
| Standby use: | |
| Float Charging Voltage | 13.5 to 13.8V |
| Coefficient -3.0mV/℃/cell | |

### Operating Temperature Range

| | | | |
|---|---|---|---|
| Charge | -15℃(5℉) | to | 40℃(104℉) |
| Discharge | -15℃(5℉) | to | 50℃(122℉) |
| Storage | -15℃(5℉) | to | 40℃(104℉) |

### Charge Retention (shelf life) at 20℃(68℉)

| | |
|---|---|
| 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℃):3-5 YEARS STANDARD COMMERCIAL

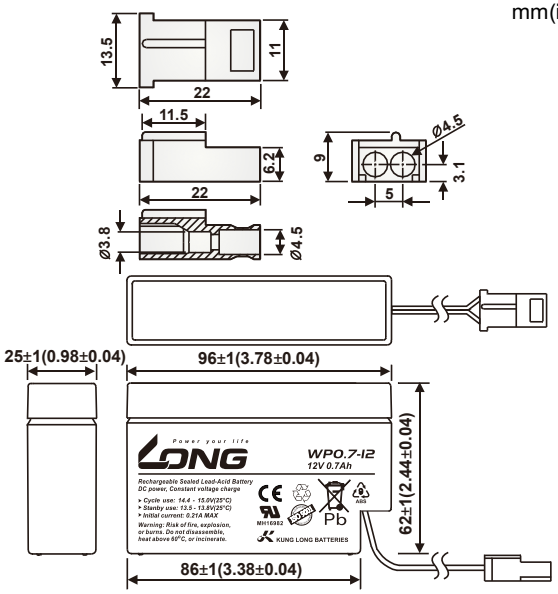
### Terminal

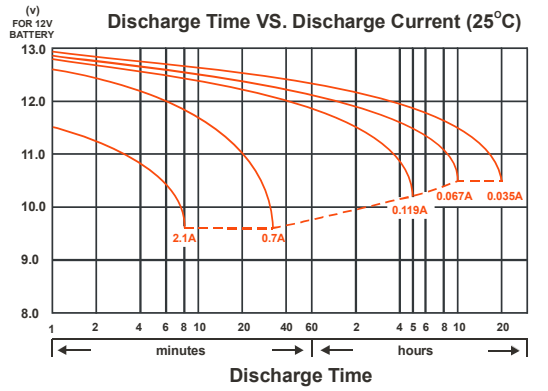
WIRE

## Dimensions

| | |
|---|---|
| Length (L) | 96±1 (3.78±0.04) |
| Width (W) | 25±1 (0.98±0.04) |
| Height (H) | 62±1 (2.44±0.04) |
| Overall Height (HT) | 62±1 (2.44±0.04) |

mm(inch)



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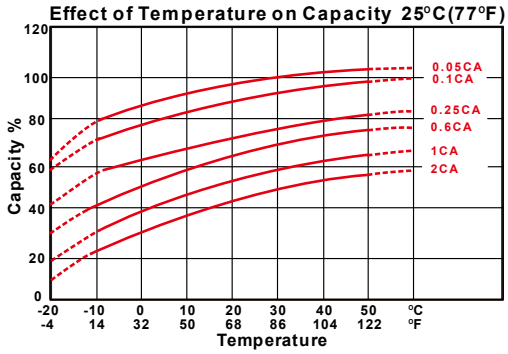
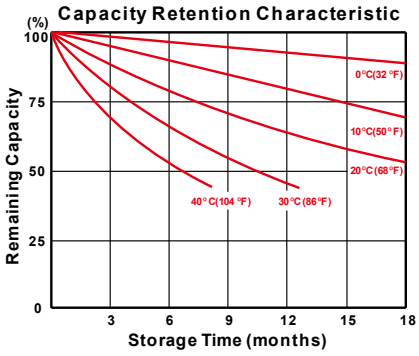
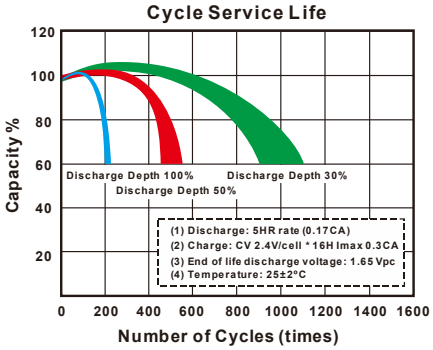
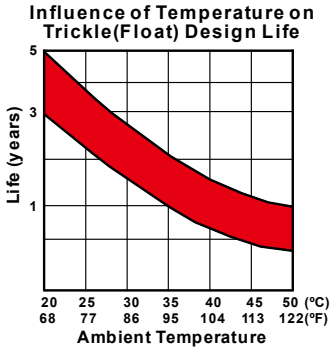
# WP0.7-12




## - PERFORMANCE DATA

### Discharge Rates in Watts to Various End Voltages at 25℃(77℉)

| Time \ End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|---|---|---|---|---|---|---|---|---|
| 10 | min | 2.65 | 3.07 | 3.38 | 3.63 | 3.72 | 3.82 | 3.93 |
| 15 | min | 2.30 | 2.53 | 2.68 | 2.78 | 2.82 | 2.87 | 2.91 |
| 30 | min | 1.34 | 1.42 | 1.48 | 1.53 | 1.54 | 1.56 | 1.58 |
| 60 | min | 0.820 | 0.865 | 0.897 | 0.923 | 0.933 | 0.945 | 0.960 |
| 120 | min | 0.485 | 0.520 | 0.545 | 0.565 | 0.573 | 0.582 | 0.593 |
| 180 | min | 0.337 | 0.365 | 0.385 | 0.400 | 0.405 | 0.412 | 0.420 |
| 240 | min | 0.282 | 0.302 | 0.315 | 0.327 | 0.330 | 0.335 | 0.340 |
| 300 | min | 0.247 | 0.258 | 0.267 | 0.273 | 0.275 | 0.277 | 0.280 |
| 600 | min | 0.131 | 0.136 | 0.142 | 0.144 | 0.145 | 0.146 | 0.147 |
| 1200 | min | 0.0700 | 0.0720 | 0.0735 | 0.0747 | 0.0750 | 0.0753 | 0.0758 |

### - Discharge Rates in Amperes to Various End Voltages at 25℃(77℉)

| Time \ End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|---|---|---|---|---|---|---|---|---|
| 10 | min | 1.38 | 1.61 | 1.79 | 1.94 | 1.99 | 2.05 | 2.12 |
| 15 | min | 1.14 | 1.30 | 1.41 | 1.48 | 1.50 | 1.53 | 1.56 |
| 30 | min | 0.638 | 0.703 | 0.755 | 0.801 | 0.816 | 0.833 | 0.852 |
| 60 | min | 0.424 | 0.447 | 0.462 | 0.475 | 0.480 | 0.486 | 0.493 |
| 120 | min | 0.245 | 0.260 | 0.271 | 0.282 | 0.286 | 0.290 | 0.296 |
| 180 | min | 0.169 | 0.181 | 0.190 | 0.198 | 0.201 | 0.205 | 0.209 |
| 240 | min | 0.137 | 0.145 | 0.151 | 0.156 | 0.161 | 0.164 | 0.167 |
| 300 | min | 0.118 | 0.124 | 0.129 | 0.133 | 0.134 | 0.136 | 0.138 |
| 600 | min | 0.062 | 0.065 | 0.067 | 0.069 | 0.070 | 0.071 | 0.072 |
| 1200 | min | 0.0345 | 0.0352 | 0.0358 | 0.0363 | 0.0365 | 0.0368 | 0.0371 |

**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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