



## VRLA Rechargeable Battery

# HR6-12 (HR6-12FR)



### FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Low self-discharge rate, lower than 3% capacity loss per month
- Can be used in any orientation(excluding used inverted)
- The battery is designed for high rate usage
- The power density at 5 min~15min discharging rate is 30% higher than BP series

### APPLICATION

- UPS
- Toy-Cars
- Power Packs
- Laboratory Equipment
- Fishing Lights



### SPECIFICATIONS

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| Nominal Voltage             | 12 V                                                                                                     |
| Nominal Capacity            | 5.5Ah @ 10 hour rate F.V.(1.75V/cell)                                                                    |
| Approx. Weight              | 2100g(4.63lbs.)                                                                                          |
| Terminals                   | T1 (Faston Tab 187) T2 is optional                                                                       |
| Internal Resistance         | ≤22mΩ (Fully Charged )                                                                                   |
| Max. Discharge Current      | 82.5 A (5 sec.)                                                                                          |
| Max. Charge Current         | 1.65 A                                                                                                   |
| Operating Temperature Range | Charge : 0°C~40°C(32°F~104°F)<br>Discharge : -20°C~50°C(-4°F~122°F)<br>Storage. : -20°C~40°C(-4°F~104°F) |
| Container Material          | ABS(UL94-HB, UL94-V0 is optional)                                                                        |

|                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------|--|
| ISO 9001                                                                                                 |  |
| ISO14001                                                                                                 |  |
| UL                                                                                                       |  |
| CE                                                                                                       |  |
| <ul style="list-style-type: none"> <li>• IEC61056</li> <li>• JIS C 8702</li> <li>• GB/T 19639</li> </ul> |  |

### DIMENSION(mm/inch)

#### OUTER DIMENSIONS

#### TERMINAL TYPE

#### Length

151±1.5 (5.94±0.06)

#### Width

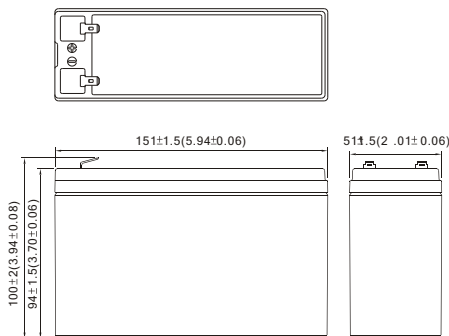
51±1.5 (2.01±0.06)

#### Container Height

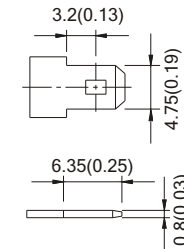
94±1.5 (3.70±0.06)

#### Total Height

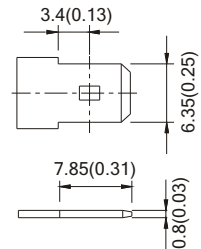
100±2.0 (3.94±0.08)



#### Terminal T1



#### Terminal T2



### Constant power discharge characteristics at 25 °C/77 °F

Unit: W

| F.V. (V/cell) \ Discharge Time | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|--------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V                          | 246.0 | 168.0  | 121.7  | 103.8  | 78.9   | 60.0   | 50.1   | 44.1   | 24.3    |
| 1.70V                          | 294.0 | 187.5  | 132.3  | 109.9  | 82.2   | 62.3   | 51.7   | 45.1   | 24.8    |
| 1.60V                          | 315.0 | 197.3  | 138.3  | 114.0  | 84.0   | 63.7   | 52.8   | 45.9   | 25.2    |
| 1.50V                          | 324.0 | 201.0  | 141.3  | 115.8  | 85.1   | 64.5   | 53.4   | 46.3   | 25.3    |
| 1.40V                          | 330.0 | 203.7  | 142.9  | 116.9  | 85.7   | 64.9   | 53.9   | 46.7   | 25.4    |
| 1.30V                          | 333.0 | 205.5  | 144.0  | 117.6  | 86.1   | 65.3   | 54.1   | 46.8   | 25.5    |

### Constant current discharge characteristics at 25 °C/77 °F

Unit: A

| F.V. (V/cell) \ Discharge Time | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|--------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V                          | 21.96 | 14.74  | 10.53  | 8.90   | 6.69   | 5.05   | 4.19   | 3.68   | 2.03    |
| 1.70V                          | 26.73 | 16.45  | 11.44  | 9.43   | 6.97   | 5.24   | 4.33   | 3.76   | 2.07    |
| 1.60V                          | 28.64 | 17.31  | 11.96  | 9.78   | 7.12   | 5.36   | 4.42   | 3.83   | 2.10    |
| 1.50V                          | 29.45 | 17.63  | 12.22  | 9.93   | 7.21   | 5.42   | 4.47   | 3.86   | 2.11    |
| 1.40V                          | 30.00 | 17.87  | 12.36  | 10.03  | 7.26   | 5.46   | 4.51   | 3.89   | 2.12    |
| 1.30V                          | 30.27 | 18.03  | 12.46  | 10.09  | 7.30   | 5.49   | 4.53   | 3.90   | 2.13    |

All data shall be changed without prior notice. BB reserves the right to explain and update the information contained hereinto.