

# VRLA Rechargeable Battery

# HRL1234W



Measures Technology Values Innovation

## FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- The battery is designed for high rate usage
- Absorbent Glass Mat technology for efficient gas recombination
- The power density at 5 min~15min discharging rate is 30% higher than BP series

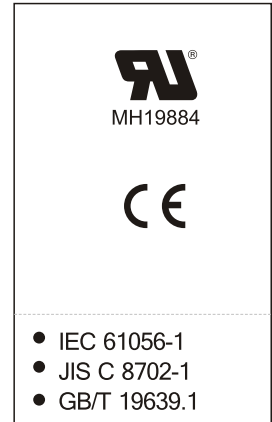
## APPLICATIONS

- UPS
- Laboratory Equipment
- Data Centre
- Wind Power
- Power Packs
- Jump Starter
- Medical Equipments



## SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| Nominal Voltage             | 12 V  |
| Nominal Capacity            | 7.0Ah @ 10 hour rate F.V.(1.75V/cell)   |
| Approx. Weight              | 2730g(6.02lbs.)   |
| Terminals                   | T2 (Faston Tab 250) T1 is optional  |
| Internal Resistance         | ≤20mΩ (Fully Charged)   |
| Max. Discharge Current      | 105 A (5 sec.)  |
| Max. Charge Current         | 2.1 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          | Standard: ABS( UL94 HB) HR1234W<br>Optional: Flame Retardant ABS(UL94 V-0) HR1234WFR                    |



| DIMENSION(mm/inch)  | OUTER DIMENSIONS | TERMINAL TYPE |
|---|------------------|---------------|
| <ul style="list-style-type: none"> <li>■ Length<br/>151±1.5 (5.94±0.06)</li> <li>■ Width<br/>65±1.5 (2.56±0.06)</li> <li>■ Container Height<br/>94±1.5 (3.70±0.06)</li> <li>■ Total Height<br/>100±2.0 (3.94±0.08)</li> </ul> |                  |               |

### 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                          | 328.0 | 224.0  | 172.3  | 138.4  | 105.2  | 80.0   | 66.8   | 58.8   | 32.4    |
| 1.70V                          | 392.0 | 250.0  | 187.4  | 146.6  | 109.6  | 83.0   | 69.0   | 60.2   | 33.1    |
| 1.60V                          | 420.0 | 263.0  | 195.9  | 152.0  | 112.0  | 85.0   | 70.4   | 61.2   | 33.6    |
| 1.50V                          | 432.0 | 268.0  | 200.2  | 154.4  | 113.4  | 86.0   | 71.2   | 61.8   | 33.8    |
| 1.40V                          | 440.0 | 271.6  | 202.5  | 155.8  | 114.2  | 86.6   | 71.8   | 62.2   | 33.9    |
| 1.30V                          | 444.0 | 274.0  | 204.0  | 156.8  | 114.8  | 87.0   | 72.2   | 62.4   | 34.0    |

### 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                          | 29.29 | 19.65  | 14.92  | 11.87  | 8.92   | 6.73   | 5.59   | 4.90   | 2.70    |
| 1.70V                          | 35.64 | 21.93  | 16.22  | 12.57  | 9.29   | 6.98   | 5.77   | 5.02   | 2.76    |
| 1.60V                          | 38.18 | 23.07  | 16.96  | 13.04  | 9.49   | 7.15   | 5.89   | 5.10   | 2.80    |
| 1.50V                          | 39.27 | 23.51  | 17.33  | 13.24  | 9.61   | 7.23   | 5.96   | 5.15   | 2.82    |
| 1.40V                          | 40.00 | 23.82  | 17.53  | 13.36  | 9.68   | 7.28   | 6.01   | 5.18   | 2.83    |
| 1.30V                          | 40.36 | 24.04  | 17.66  | 13.45  | 9.73   | 7.32   | 6.04   | 5.20   | 2.83    |

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