



## VRLA Rechargeable Battery

# HRL5.8-12

### 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.
- Absorbent Glass Mat technology for efficient gas recombination.
- The power density at 5 min~15min discharging rate is 30% higher than BP series.

### APPLICATION

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



### SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Nominal Voltage             | 12 V   |
| Nominal Capacity            | 5.3Ah @ 10 hour rate F.V.(1.75V/cell)  |
| Approx. Weight              | 1880g(4.15lbs.)  |
| Terminals                   | T1 (Faston Tab 187) T2 is optional   |
| Internal Resistance         | ≤23mΩ (Fully Charged )   |
| Max. Discharge Current      | 79.5 A (5 sec.)  |
| Max. Charge Current         | 1.59 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( UL 94-HB) HRL5.8-12<br>Optional: Flame Retardant ABS(UL 94-V0) HRL5.8-12FR                |

**WSF** ISO9001 **UL** MH19884

**WSF** ISO14001 **CE**

**WSF** OHSMS

- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

| DIMENSION(mm/inch)   | OUTER DIMENSIONS | TERMINAL TYPE                             |
|--|------------------|---|
| <p>■ Length</p> <p>90±1.5 (3.54±0.06)</p> <p>■ Width</p> <p>70±1.5 (2.76±0.06)</p> <p>■ Container Height</p> <p>102±1.5 (4.02±0.06)</p> <p>■ Total Height</p> <p>106±2.0 (4.17±0.08)</p> |                  | <p>● Terminal T1</p> <p>● Terminal T2</p> |

### 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                          | 237.8 | 162.4  | 117.6  | 100.3  | 76.3   | 58.0   | 48.5   | 42.7   | 23.5    |
| 1.70V                          | 284.2 | 181.3  | 127.9  | 106.3  | 79.5   | 60.2   | 50.0   | 43.6   | 24.0    |
| 1.60V                          | 304.5 | 190.7  | 133.7  | 110.2  | 81.2   | 61.6   | 51.0   | 44.4   | 24.4    |
| 1.50V                          | 313.2 | 194.3  | 136.6  | 111.9  | 82.2   | 62.4   | 51.6   | 44.8   | 24.5    |
| 1.40V                          | 319.0 | 196.9  | 138.2  | 113.0  | 82.8   | 62.8   | 52.1   | 45.1   | 24.6    |
| 1.30V                          | 321.9 | 198.7  | 139.2  | 113.7  | 83.3   | 63.1   | 52.3   | 45.2   | 24.6    |

### 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                          | 21.23 | 14.24  | 10.17  | 8.61   | 6.46   | 4.88   | 4.05   | 3.55   | 1.96    |
| 1.70V                          | 25.83 | 15.90  | 11.07  | 9.11   | 6.73   | 5.06   | 4.19   | 3.63   | 2.00    |
| 1.60V                          | 27.68 | 16.73  | 11.57  | 9.45   | 6.88   | 5.18   | 4.27   | 3.70   | 2.03    |
| 1.50V                          | 28.47 | 17.04  | 11.82  | 9.60   | 6.97   | 5.24   | 4.32   | 3.73   | 2.04    |
| 1.40V                          | 29.00 | 17.28  | 11.95  | 9.69   | 7.02   | 5.28   | 4.36   | 3.76   | 2.05    |
| 1.30V                          | 29.26 | 17.43  | 12.04  | 9.75   | 7.06   | 5.31   | 4.38   | 3.77   | 2.05    |

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