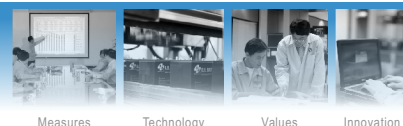


# VRLA Rechargeable Battery

## HRL15-12



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

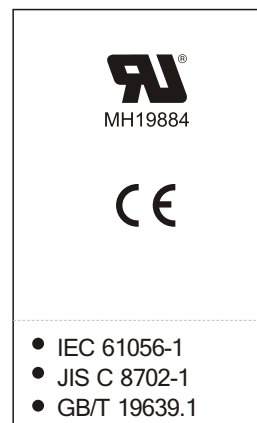
### APPLICATIONS

- UPS
- Fishing Lights
- Power Packs



### SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	13Ah @ 10 hour rate F.V.(1.75V/cell)
Approx. Weight	4200g(9.25lbs.)
Terminals	T2 (Faston Tab 250) T1 is optional
Internal Resistance	≤ 12mΩ (Fully Charged)
Max. Discharge Current	180 A (5 sec.)
Max. Charge Current	3.9 A
Operating Temperature Range	Charge : 0°C~40°C(32°F~104°F) Discharge : -20°C~50°C(-4°F~122°F) Storage : -20°C~40°C(-4°F~104°F)
Container Material	Standard: ABS( UL94 HB) HRL15-12 Optional: Flame Retardant ABS(UL94 V-0) HRL15-12FR



### DIMENSION(mm/inch)

### OUTER DIMENSIONS

### TERMINAL TYPE

#### Length

151±1.5 (5.94±0.06)

#### Width

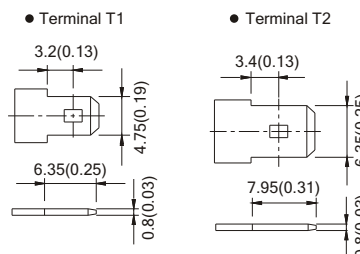
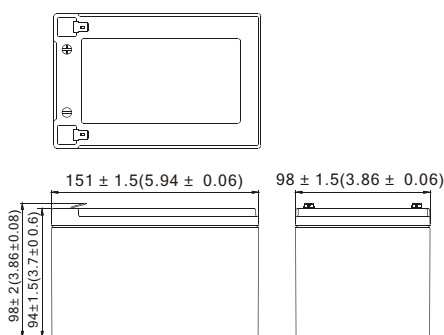
98±1.5 (3.86±0.06)

#### Container Height

94±1.5 (3.70±0.06)

#### Total Height

98±2.0 (3.86±0.08)



### 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	615.0	420.0	304.1	259.5	197.3	150.0	125.3	110.3	60.8
1.70V	735.0	468.8	330.8	274.9	205.5	155.6	129.4	112.9	62.0
1.60V	787.5	493.1	345.8	285.0	210.0	159.4	132.0	114.8	63.0
1.50V	810.0	502.5	353.3	289.5	212.6	161.3	133.5	115.9	63.3
1.40V	825.0	509.3	357.4	292.1	214.1	162.4	134.6	116.6	63.5
1.30V	832.5	513.8	360.0	294.0	215.3	163.1	135.4	117.0	63.7

### 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	54.91	36.84	26.31	22.26	16.72	12.62	10.49	9.19	5.07
1.70V	66.82	41.12	28.62	23.58	17.42	13.09	10.83	9.41	5.17
1.60V	71.59	43.25	29.91	24.44	17.80	13.41	11.05	9.57	5.25
1.50V	73.64	44.08	30.56	24.83	18.02	13.57	11.17	9.66	5.28
1.40V	75.00	44.68	30.92	25.05	18.14	13.66	11.26	9.72	5.29
1.30V	75.68	45.07	31.14	25.21	18.25	13.72	11.33	9.75	5.31

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