



## VRLA Rechargeable Battery

# HR8-12 (HR8-12FR)



### 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
- Fishing Lights
- Power Packs
- Laboratory Equipment
- Fishing Lights Booster
- Toy-Cars



### SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	7.0Ah @ 10 hour rate F.V.(1.75V/cell)
Approx. Weight	2600g(5.73lbs.)
Terminals	T2 (Faston Tab 250) T1 is optional
Internal Resistance	≤20m Ω (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) Discharge : -20°C~50°C(-4°F~122°F) Storage. : -20°C~40°C(-4°F~104°F)
Container Material	ABS(UL94-HB, UL94-V0 is optional)

ISO 9001	ngs ISO 9001 REGISTERED	UKAS REGISTERED
ISO14001	WSC ISO14001	
UL	UL MH19884	
CE	CE C4M20310-2474-E-16	
<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

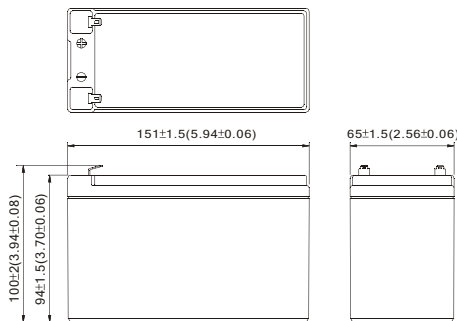
65±1.5 (2.56±0.06)

#### Container Height

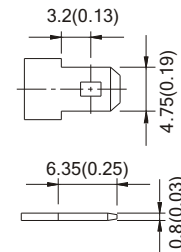
94±1.5 (3.70±0.06)

#### Total Height

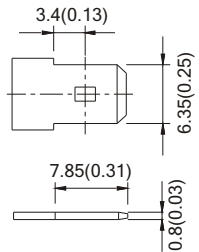
100±2.0 (3.94±0.08)



#### 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	328.0	224.0	162.2	138.4	105.2	80.0	66.8	58.8	32.4
1.70V	392.0	250.0	176.4	146.6	109.6	83.0	69.0	60.2	33.1
1.60V	420.0	263.0	184.4	152.0	112.0	85.0	70.4	61.2	33.6
1.50V	432.0	268.0	188.4	154.4	113.4	86.0	71.2	61.8	33.8
1.40V	440.0	271.6	190.6	155.8	114.2	86.6	71.8	62.2	33.9
1.30V	444.0	274.0	192.0	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	14.03	11.87	8.92	6.73	5.59	4.90	2.70
1.70V	35.64	21.93	15.26	12.57	9.29	6.98	5.77	5.02	2.76
1.60V	38.18	23.07	15.95	13.04	9.49	7.15	5.89	5.10	2.80
1.50V	39.27	23.51	16.30	13.24	9.61	7.23	5.96	5.15	2.82
1.40V	40.00	23.82	16.49	13.36	9.68	7.28	6.01	5.18	2.83
1.30V	40.36	24.04	16.61	13.45	9.73	7.32	6.04	5.20	2.83

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