



Measures Technology Values Innovation



VRLA Rechargeable Battery

HRL8-12

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	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	Standard: ABS(UL 94-HB) HRL8-12 Optional: Flame Retardant ABS(UL 94-V0) HRL8-12FR

WSF ISO9001	UL MH19884
WSF ISO14001	CE
WSF OHSMS	
<ul style="list-style-type: none"> ● IEC 61056-1 ● JIS C 8702-1 ● GB/T 19639.1 	

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<ul style="list-style-type: none"> ■ 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) 		<ul style="list-style-type: none"> ● Terminal T1 3.2(0.13) 4.75(0.19) 6.35(0.25) 0.8(0.03) ● Terminal T2 3.4(0.13) 6.35(0.25) 7.95(0.31) 0.8(0.03)

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