



VRLA Rechargeable Battery

HR9-12 (HR9-12FR)



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



SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	8.0Ah @ 10 hour rate F.V.(1.75V/cell)
Approx. Weight	2750g(6.06lbs.)
Terminals	T2 (Faston Tab 250) , T1 and B0 are optional
Internal Resistance	≤15mΩ (Fully Charged)
Max. Discharge Current	120 A (5 sec.)
Max. Charge Current	2.4 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	
ISO14001	
UL	 MH19884
CE	 C4M20310-2474-E-16
<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 ● Terminal T2 ● Terminal B0 <p>[M5 BOLT & NUT]</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	369.0	252.0	182.5	155.7	118.4	90.0	75.2	66.2	36.5	
1.70V	441.0	281.3	198.5	164.9	123.3	93.4	77.6	67.7	37.2	
1.60V	472.5	295.9	207.5	171.0	126.0	95.6	79.2	68.9	37.8	
1.50V	486.0	301.5	212.0	173.7	127.6	96.8	80.1	69.5	38.0	
1.40V	495.0	305.6	214.4	175.3	128.5	97.4	80.8	70.0	38.1	
1.30V	499.5	308.3	216.0	176.4	129.2	97.9	81.2	70.2	38.2	

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	32.95	22.11	15.79	13.35	10.03	7.57	6.29	5.52	3.04	
1.70V	40.09	24.68	17.17	14.14	10.45	7.86	6.49	5.64	3.10	
1.60V	42.95	25.96	17.95	14.67	10.68	8.04	6.63	5.74	3.15	
1.50V	44.18	26.45	18.34	14.90	10.81	8.14	6.70	5.79	3.17	
1.40V	45.00	26.81	18.55	15.03	10.89	8.19	6.76	5.83	3.18	
1.30V	45.41	27.04	18.69	15.13	10.95	8.23	6.79	5.85	3.18	

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