



VRLA Rechargeable Battery

HR4-12



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



SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	3.5Ah @ 10 hour rate F.V.(1.75V/cell)
Approx. Weight	1400g(3.09lbs.)
Terminals	T1 (Faston Tab 187) T2 is optional
Internal Resistance	$\leq 30m\Omega$ (Fully Charged)
Max. Discharge Current	52.5 A (5 sec.)
Max. Charge Current	1.05 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) HR4-12 Optional: Flame Retardant ABS(UL 94-V0) HR4-12FR



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

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

134±1.5 (5.28±0.06)

Width

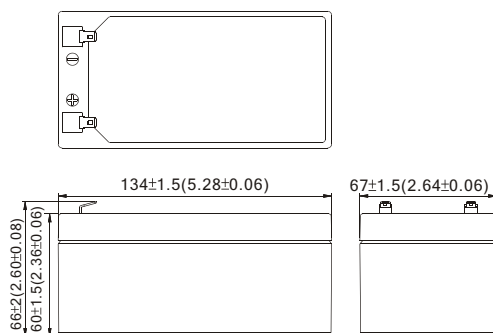
67±1.5 (2.64±0.06)

Container Height

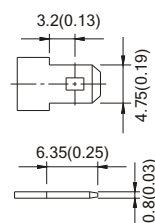
60±1.5 (2.36±0.06)

Total Height

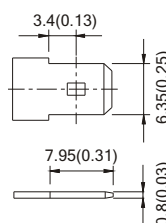
66±2.0 (2.60±0.08)



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		164.0	112.0	81.1	69.2	52.6	40.0	33.4	29.4	16.2
1.70V		196.0	125.0	88.2	73.3	54.8	41.5	34.5	30.1	16.5
1.60V		210.0	131.5	92.2	76.0	56.0	42.5	35.2	30.6	16.8
1.50V		216.0	134.0	94.2	77.2	56.7	43.0	35.6	30.9	16.9
1.40V		220.0	135.8	95.3	77.9	57.1	43.3	35.9	31.1	16.9
1.30V		222.0	137.0	96.0	78.4	57.4	43.5	36.1	31.2	17.0

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		14.64	9.82	7.02	5.93	4.46	3.36	2.79	2.45	1.35
1.70V		17.82	10.96	7.63	6.29	4.64	3.49	2.89	2.51	1.38
1.60V		19.09	11.54	7.98	6.52	4.75	3.57	2.95	2.55	1.40
1.50V		19.64	11.75	8.15	6.62	4.81	3.62	2.98	2.58	1.41
1.40V		20.00	11.91	8.24	6.68	4.84	3.64	3.00	2.59	1.41
1.30V		20.18	12.02	8.30	6.72	4.86	3.66	3.02	2.60	1.42

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