



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Measures Technology Values Innovation



VRLA Rechargeable Battery

HRC9-12 (HRC9-12FR)

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
- Its design life is up to 5 years in floating application
- 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
- Laboratory Equipment
- Fishing Lights
- Fishing Lights Booster
- Power Packs
- Toy-Cars

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	10 Hour Rate (800mA, 10.5V)	8.0 Ah
	15 Min Rate (216W, 7.8V)	4.5 Ah
Approx. Weight	2550g(5.62lbs.)	
Terminals	T2 (Faston Tab 250) , T1 and B0 are optional	
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)
Self Discharge	< 3% per month (25°C)	
Internal Resistance	≤15mΩ (Fully Charged)	

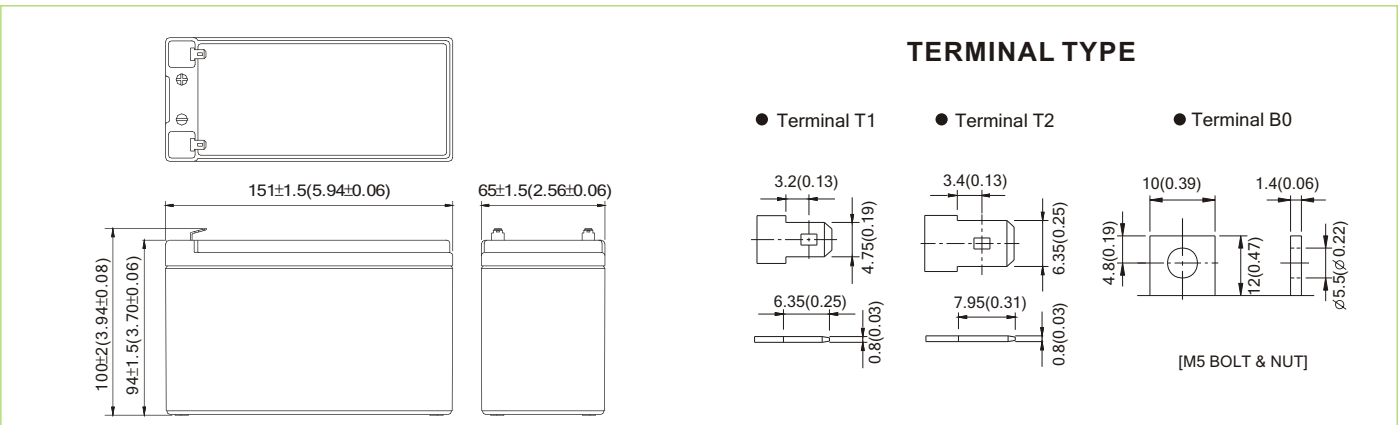


CONTAINER MATERIAL

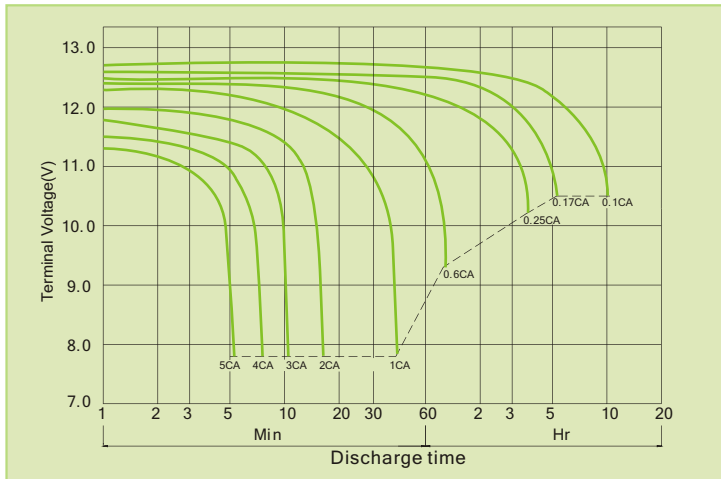
- HRC9-12:
ABS: 94-HB (Dark gray color)
- HRC9-12FR:
ABS: 94-V0 (Light gray color)

 ISO 9001	 ISO 14001	 ISO 14001	 CE
 IEC61056		 JIS C 8702	
 GB/T 19639			

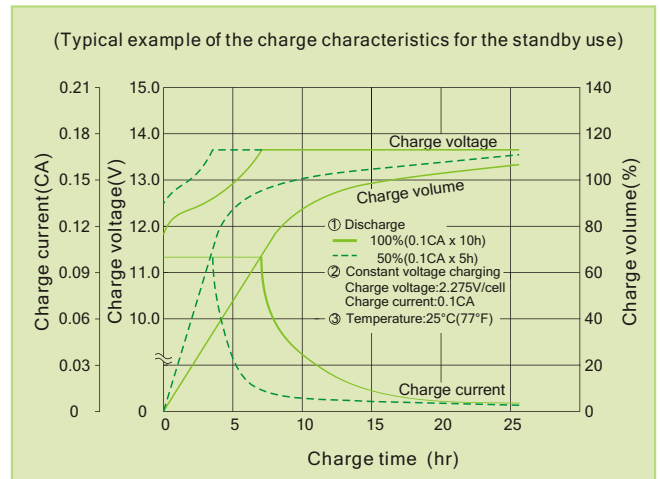
OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
		151±1.5(5.94±0.06)	65±1.5(2.56±0.06)	94±1.5(3.70±0.06)



HRC9-12 (HRC9-12FR) discharge characteristics (25°C/77°F)



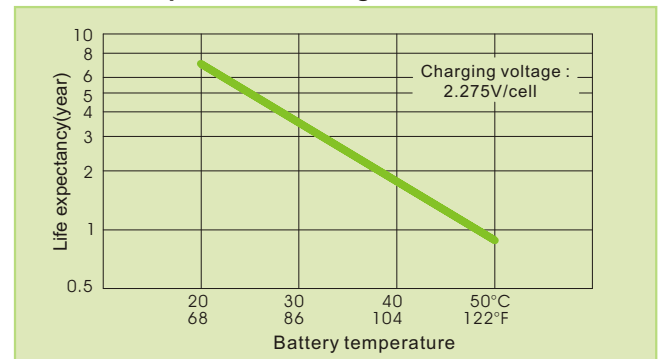
Battery Charging Characteristics



Charging Procedure

Application	Charging method	Charging Voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 25°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

Effect Of Temperature On Long Term Float Life



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.

Trials A/2 REV. Feb. 2011

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