



# Valve Regulated Lead-Acid Rechargeable Battery



## HR5.8-12

(23W/Cell 15Min Rate)

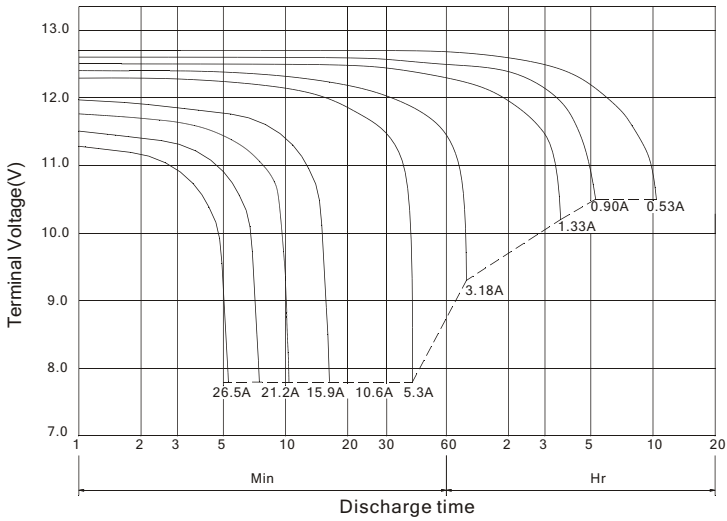
For High Rate Discharge

The battery is constructed by plates, separators, safety valves and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can be used in any direction and position without leakage.

### PERFORMANCE SPECIFICATIONS

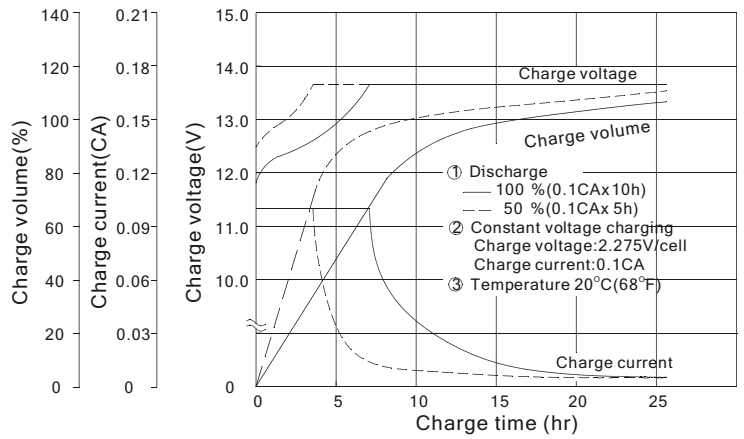
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
10 Hour rate F.V.(1.75V/cell) (0.53A to 10.50volts) .....	5.30A.H.
15 Min rate F.V.(1.30V/cell) (138W to 7.80volts) .....	2.90A.H.
Approximate Weight .....	.1880g(4.15lbs.)
Terminal	
Standard.....	Type T1
Optional.....	Type T2
Internal Resistance (Fully Charged Battery).....	<23mΩ
Maximum Discharge Current For 5 sec.(A).....	79.5A
Maximum Charge Current(A).....	1.59A
Ambient Temperature	
Charge.....	0°C(32°F)~40°C(104°F)
Discharge.....	-20°C(-4°F)~50°C(122°F)
Storage.....	-20°C(-4°F)~40°C(104°F)
Vibration test:	
Frequency: 16.7HZ	
Amplitude: 4mm	
Vibrate the battery horizontally or vertically for 60 minutes. The battery have no abnormality.	
Case.....	ABS
Dimension(mm/inch)	
Length           ±1.5mm.....	90/3.54
Width           ±1.5mm.....	70/2.76
Container Height ±1.5mm.....	102/4.02
Total Height    ±2mm.....	106/4.17
Application.....	UPS, Fishing Lights, Emergency Lights, Toy-Cars.

## HR5.8-12 Battery discharge characteristics (25°C / 77°F)



## Battery Charging Characteristics

(Typical example of the charge characteristic for the standby use)

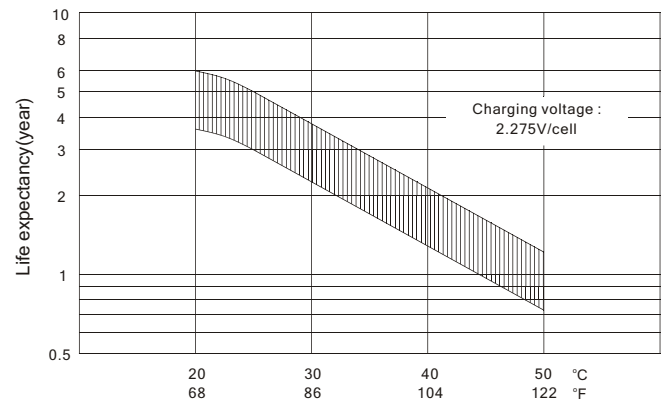


## Charging Procedure

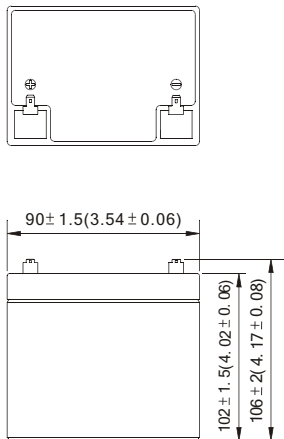
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C /cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (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	

\*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

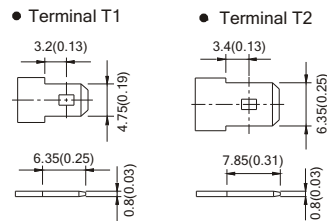
## Effect of Temperature on Long Term Float Life



## OUTER DIMENSIONS



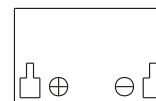
## TERMINAL TYPE



## Constant power discharge characteristics at 25°C/77°F

Final Voltage	Discharge time							
	5Min	10Min	15Min	20Min	30Min	40Min	50Min	60Min
10.80V	225.5	154.0	111.5	95.2	72.4	55.0	46.0	40.5
10.20V	269.5	171.9	121.3	100.8	75.4	57.1	47.4	41.4
9.60V	288.8	180.8	126.8	104.5	77.0	58.4	48.4	42.1
9.00V	297.0	184.3	129.6	106.2	78.0	59.2	49.0	42.5
8.40V	302.5	186.8	131.0	107.1	78.5	59.5	49.4	42.8
7.80V	305.3	188.4	132.0	107.8	79.0	59.8	49.6	42.9

## TERMINAL POSITION



**B.B. BATTERY CO., LTD.**

Web Site: <http://www.bb-battery.com>

**USA:**  
B&B BATTERY(USA) INC.  
6415 RANDOLPH ST.COMMERCE,  
CA,90040 U.S.A.  
TEL:1-323-278-1900.1-800-278-8599  
FAX:1-323-278-1268  
E-Mail:sales@bb-battery.com

**EUROPE:**  
B&B BATTERY(EUROPE) B.V.  
3 WIJNGAARDVELD, 9300 AALST,BELGIUM  
TEL:(00)32-53781567  
FAX:(00)32-53781567  
E-Mail:hansdevriese@bb-battery.com

**CHINA FACTORY:**  
B.B. BATTERY CO., LTD.  
CHENG DONG TRIAL AREA,HUANG GANG,  
RAOPING, GUANG DONG,CHINA,515700  
TEL:86-768-7601001-2  
FAX:86-768-7601469  
E-Mail:maggy@bb-battery.com

**HONG KONG:**  
NATIONAL TRADING LTD.  
TEL:852-2301-3800  
FAX:852-2739-1182  
E-Mail:bbhk@hkstar.com

**JAPAN:**  
B&B BATTERY(JAPAN) CO., LTD.  
1375-11 NARAHARA-MACHI,HACHIOJI,  
TOKYO 193-0803,JAPAN.  
TEL:81-426-25-6375  
FAX:81-426-25-6375  
E-Mail:miyata@bb-battery.com

**TAIWAN:**  
B.B. BATTERY(TAIWAN) CO., LTD.  
TEL:886-6-502-5150  
FAX:886-6-589-8087  
E-Mail:maggy@bb-battery.com

