



# Valve Regulated Lead-Acid Rechargeable Battery



## HR6-12

(24W/Cell 15Min Rate)

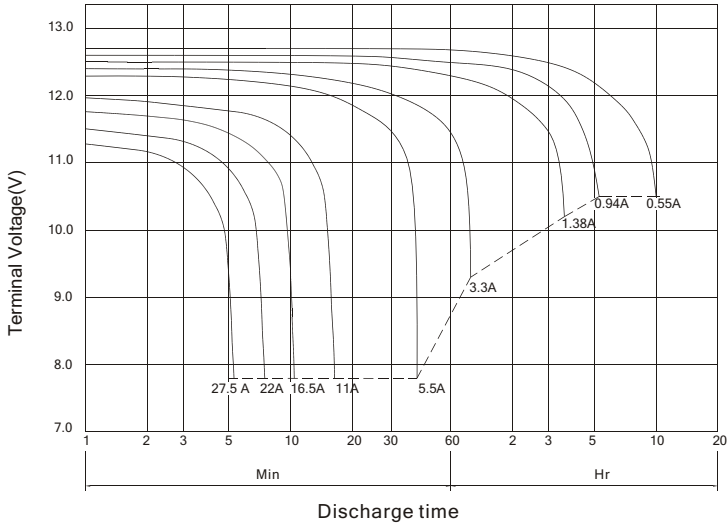
For High Rate Discharge

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

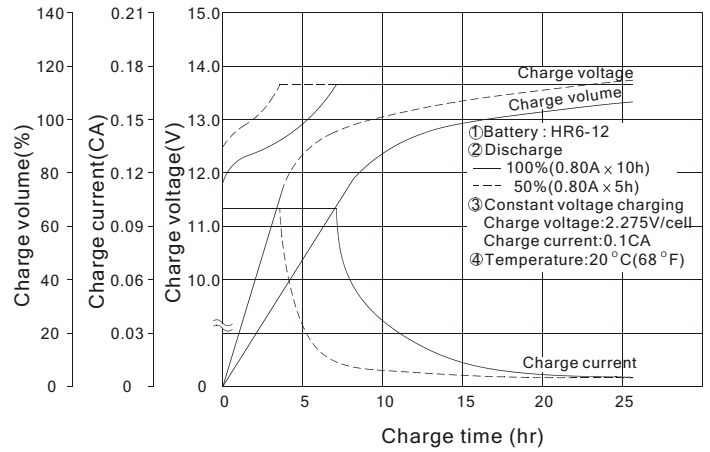
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
10 Hour rate F.V.(1.75V/cell) (550mA to 10.50volts) .....	5.5Ah
15 Min rate F.V.(1.30V/cell) (144W to 7.80volts) .....	3.0Ah
Approximate Weight .....	2100g(4.63lbs.)
Terminal	
Standard.....	Type T1
Optional.....	Type T2
Internal Resistance (Fully Charged Battery).....	<20mΩ
Maximum Discharge Current For 5 sec.(A).....	82.5A
Maximum Charge Current(A).....	1.65A
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.....	151/5.94
Width           ±1.5mm.....	51/2.01
Container Height ±1.5mm.....	94/3.70
Total Height   ±2mm.....	100/3.94
Application.....	UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.

## HR6-12 Battery discharge characteristics (25 °C/77 °F)



## Battery Charging Characteristics

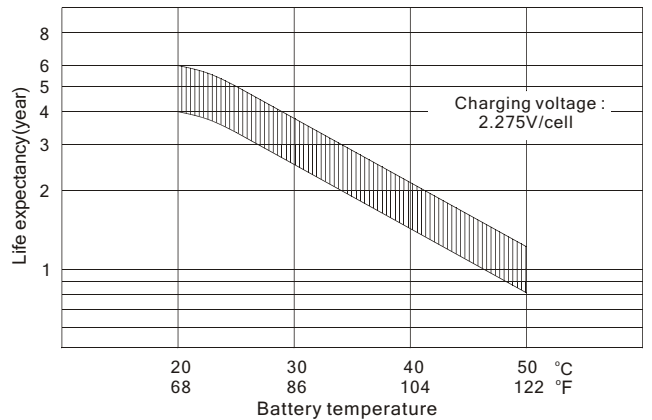
(Typical example of the charge characteristic for the standby use)



## Charging Procedure

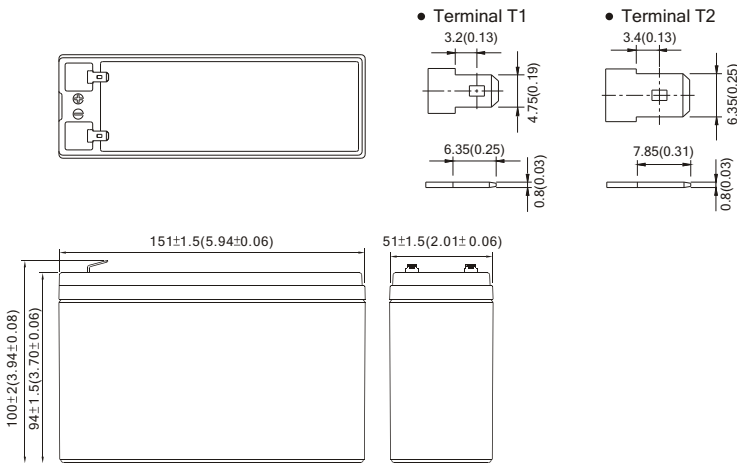
Application	Charging method	Charging Voltage at 20 °C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20 °C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging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

## Effect of Temperature on Long Term Float Life



## TERMINAL TYPE mm (inch)

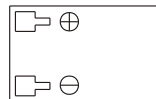
## OUTER DIMENSIONS



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

Final Voltage	Discharge time							
	5Min	10Min	15Min	20Min	30Min	40Min	50Min	60Min
10.80V	246.0	168.0	121.7	103.8	78.9	60.0	50.1	44.1
10.20V	294.0	187.5	132.3	109.9	82.2	62.3	51.7	45.1
9.60V	315.0	197.3	138.3	114.0	84.0	63.7	52.8	45.9
9.00V	324.0	201.0	141.3	115.8	85.1	64.5	53.4	46.3
8.40V	330.0	203.7	142.9	116.9	85.7	64.9	53.9	46.7
7.80V	333.0	205.5	144.0	117.6	86.1	65.3	54.1	46.8

## TERMINAL POSITION



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