



Valve Regulated Lead-Acid Rechargeable Battery



HR50-12

(200W/Cell 15Min Rate)

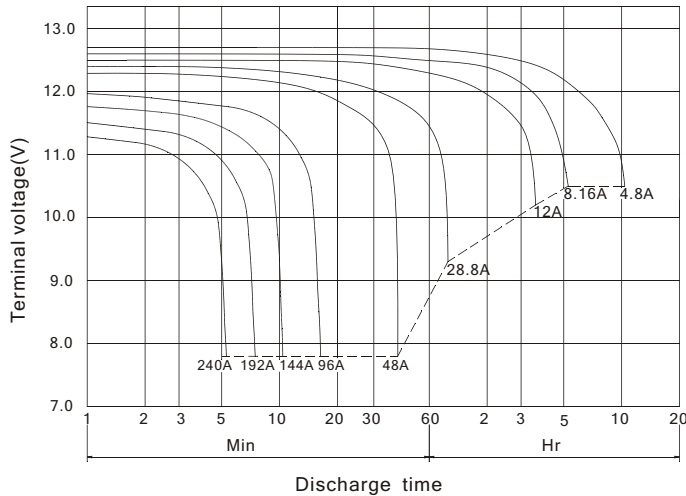
For High Rate Discharge

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 (but upside-down should be avoided) without leakage.

PERFORMANCE SPECIFICATIONS

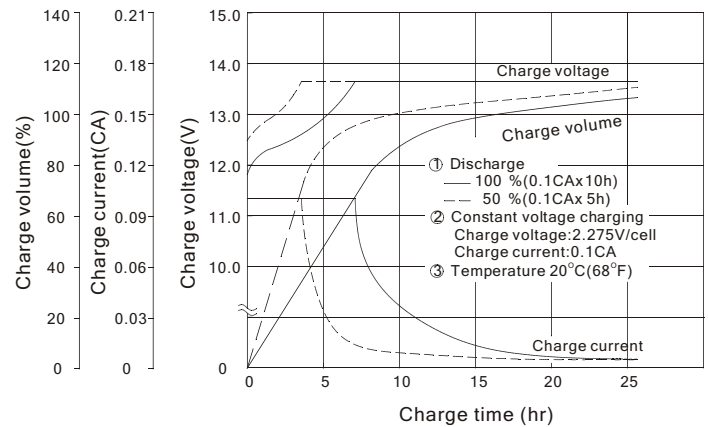
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
10 Hour rate F.V.(1.75V/cell) (4.80A to 10.50volts).....	48.0Ah
15 Min rate F.V.(1.30V/cell) (1200W to 7.80volts)	25.0Ah
Approximate Weight	15.3Kg(33.74lbs.)
Terminal	
Standard.....	Type B2
Optional.....	Type I1, I2
Terminal Hardware Initial Torque.....	B2,I1(4.0 Nm $\pm$ 5%), I2(5.5 Nm $\pm$ 5%)
Internal Resistance (Fully Charged Battery).....	$\leq 5m\Omega$
Maximum Discharge Current For 5 sec.(A).....	600A
Maximum Charge Current(A).....	14.4A
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: UL 94-HB
Dimension(mm/inch)	
Length $\pm 1.5mm$	197/7.76
Width $\pm 1.5mm$	165/6.50
Container Height $\pm 1.5mm$	171/6.73
Total Height $\pm 1.5mm$	171/6.73
Application.....	UPS, Wheelchairs, Golf-Carts.

HR50-12 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

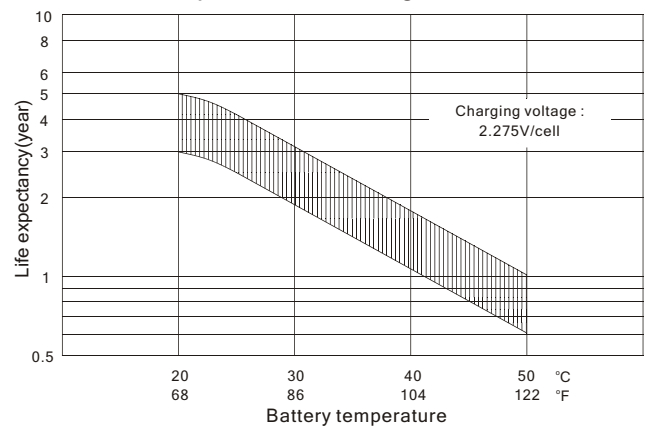
(Typical example of the charge characteristic for the standby use)



Charging Procedure

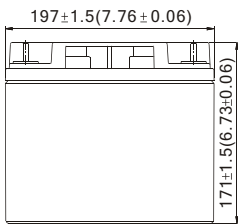
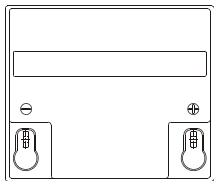
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C /cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging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



OUTER DIMENSIONS

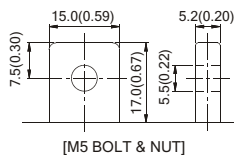
mm(inch)



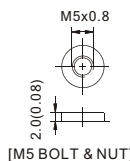
TERMINAL TYPE

mm(inch)

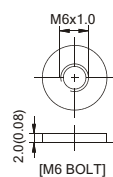
● Terminal B2



● Terminal I1



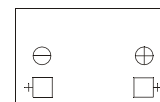
● Terminal I2



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

Final Voltage	Discharge time							
	5Min	10Min	15Min	20Min	30Min	40Min	50Min	60Min
Battery output power(W)								
10.80V	2050	1400	1014	865	658	500	418	368
10.20V	2450	1563	1103	916	685	519	431	376
9.60V	2625	1644	1153	950	700	531	440	383
9.00V	2700	1675	1178	965	709	538	445	386
8.40V	2750	1698	1191	974	714	541	449	389
7.80V	2775	1713	1200	980	718	544	451	390

TERMINAL POSITION



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