



# Valve Regulated Lead-Acid Rechargeable Battery



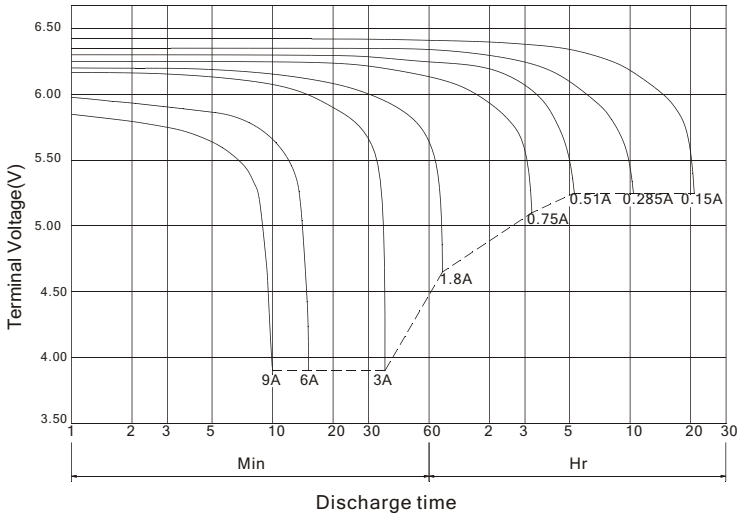
## BP3-6

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

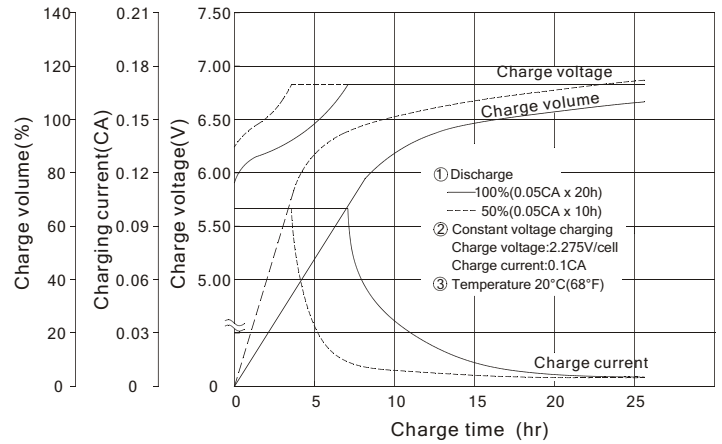
Nominal Voltage(V).....	6 volts(3cells in series)
Nominal Capacity(Ah)	
20 hour rate F.V.(1.75V/cell) (150mA to 5.25volts) .....	3.00Ah
10 hour rate F.V.(1.75V/cell) (285mA to 5.25volts) .....	2.85Ah
5 hour rate F.V.(1.75V/cell) ( 510mA to 5.25volts) .....	2.55Ah
1 hour rate F.V.(1.55V/cell) ( 1800mA to 4.65volts).....	1.80Ah
Approximate Weight.....	650g(1.43lbs.)
Terminal	
Standard.....	Type T1
Internal Resistance (Fully Charged Battery).....	<30mΩ
Maximum Discharge Current For 5 sec.(A).....	45A
Maximum Charge Current(A).....	0.9A
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.....	134/5.28
Width           ±1.5mm.....	34/1.34
Container Height ±1.5mm.....	60/2.36
Total Height   ±2mm.....	66/2.60
Application.....	Security, UPS.

## BP3-6 Battery discharge characteristics (25°C/77°F)

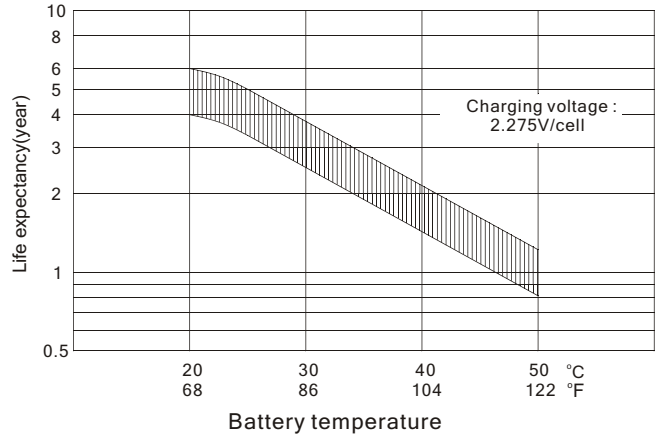


## Battery Charging Characteristics

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



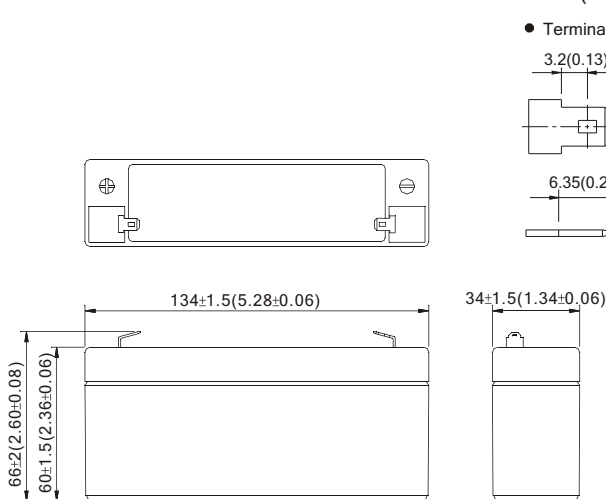
## Effect of Temperature on Long Term Float Life



## Charging Procedure

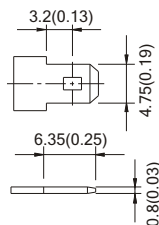
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging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

## OUTER DIMENSIONS



## TERMINAL TYPE mm(inch)

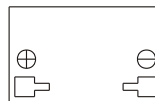
- Terminal T1



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

Final Voltage	Discharge time									
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr	
5.40V	54.2	39.9	32.0	19.0	10.92	4.37	3.01	1.68	0.88	
5.25V	62.8	43.3	33.5	19.8	11.24	4.46	3.06	1.71	0.90	
5.10V	66.7	44.8	34.5	20.2	11.45	4.50	3.08	1.72	0.90	
4.95V	69.7	45.9	35.3	20.5	11.58	4.53	3.09	1.72	0.91	
4.80V	72.0	46.8	36.0	20.7	11.70	4.56	3.10	1.72	0.91	

## TERMINAL POSITION



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