



Applications

- Electric tools
- Lawn mowers
- Electric toys
- Fire alarms
- Wheelchairs
- Vehicle in place of walking
- Golf trolleys and golf cart
- Power supply
- Portable power
- Solar system

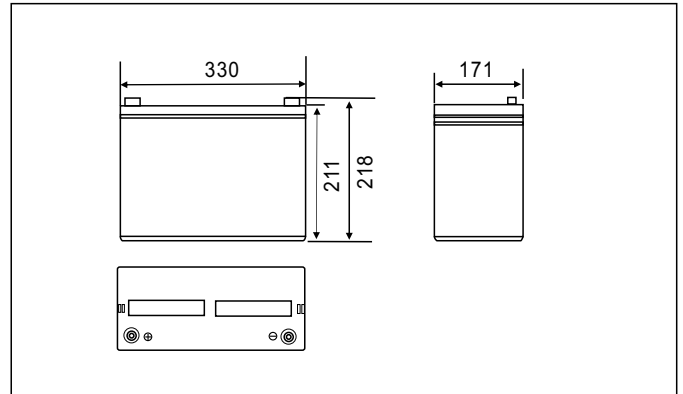
Specifications

Nominal Voltage	12V	
Rated Capacity (10 hour rate)	90Ah	
Dimensions	Total Height	218±2mm(8.58inches)
	Height	214±2mm(8.43 inches)
	Length	330±2mm(12.99inches)
	Width	171±2mm(6.73 inches)
Weight Approx	27.5kg(60.64 lbs)±4%	

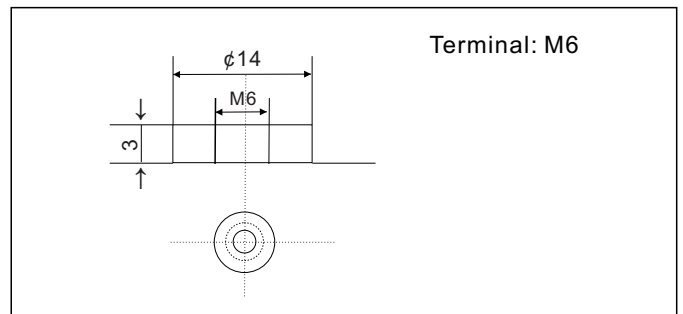
Characteristics

Capacity 25°C(77°F)	10 hour rate(9.0A)	90.0AH
	5 hour rate(16.1A)	80.5AH
	1 hour rate(56.4A)	56.4AH
Internal Resistance	Full charged Battery at 25°C(77°F)	5.5mΩ
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Charge (constant voltage)	Cycle	Initial Charging Current Less than 27 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

Outer Dimensions (mm)



Terminal Type (mm)



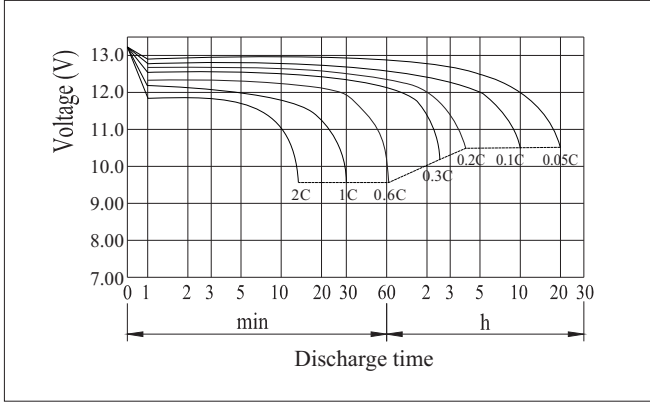
- Design Life at: GB series: 3-5 years.
LGB series: 7-10 years, CGB series: 10-15 years.
- Low self-discharge: at the ambient temperature 25°C, the rate of self-discharge is less than 2% of normal capacity per month.
- Wide operating temperature range: -15°C~45°C.
- Low resistance with large output power. No need to discharge with equalizing voltage. Good charge acceptance, quick charge ability.

Warranty period: 2 year

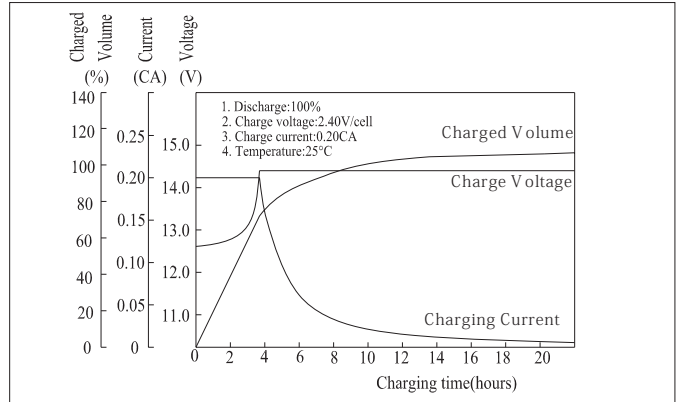
Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	193	150	90.9	56.4	32.9	23.0	18.8	16.1	11.0	4.81
	w	2082	1647	1020	642	381	270	221	190	131	57.7
9.90V	A	187	146	89.1	55.5	32.7	22.8	18.7	16.0	11.0	4.80
	w	2020	1607	1000	633	379	268	220	189	130	57.6
10.20V	A	179	141	86.4	54.1	32.4	22.7	18.6	15.9	10.9	4.79
	w	1936	1548	969	617	375	266	218	187	129	57.4
10.50V	A	172	136	84.3	53.0	31.9	22.5	18.5	15.8	10.8	4.76
	w	1835	1495	945	605	370	265	217	186	128	57.1
10.80V	A	162	129	81.2	51.4	31.1	21.8	17.9	15.3	10.5	4.73
	w	1749	1416	911	586	360	257	210	181	124	56.7

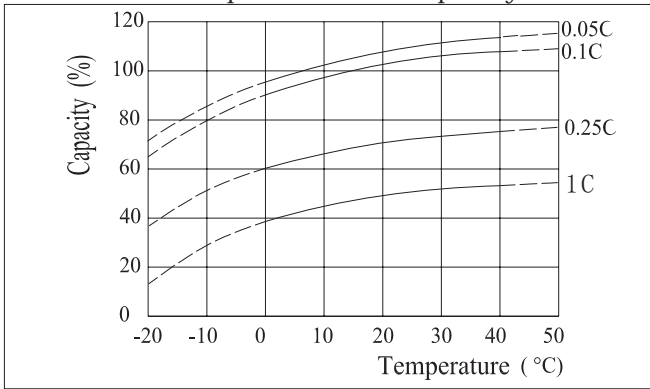
● Discharge Characteristics(25°C)



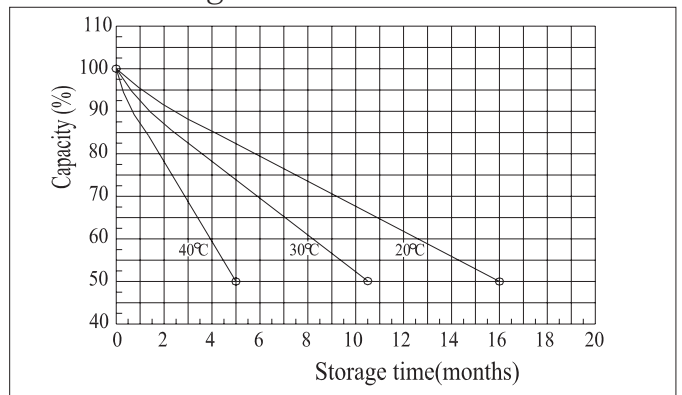
● Charging Characteristics(25°C)



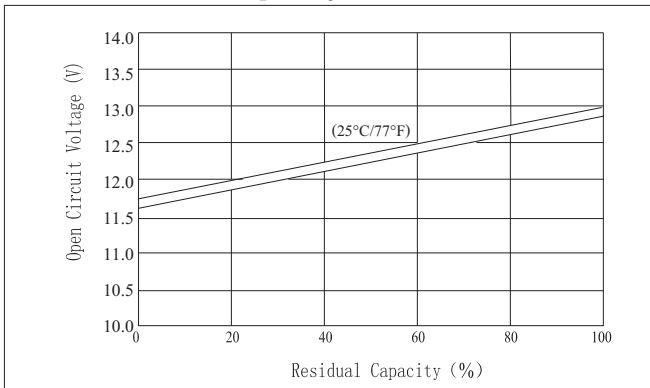
● Effect of Temperature on Capacity



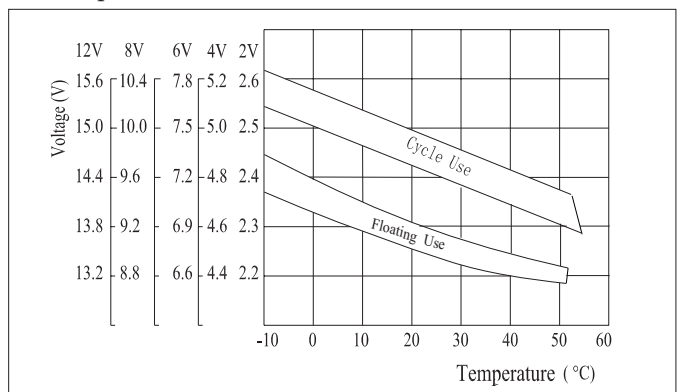
● Self-discharge Characteristics



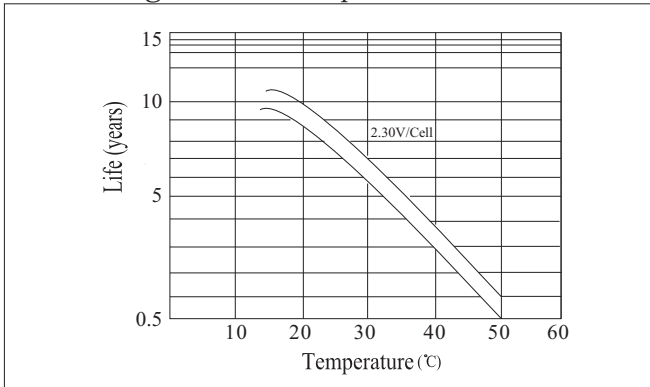
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D(25°C)

