



● Specifications

Nominal Voltage		12V
Rated Capacity (10 hour rate)		38Ah
Dimensions	Total Height	170±2mm(6.69 inches)
	Height	170±2mm(6.69 inches)
	Length	197±2mm(7.74 inches)
	Width	165±2mm(6.50 inches)
Weight Approx		11.2kg(24.81 lbs)±4%

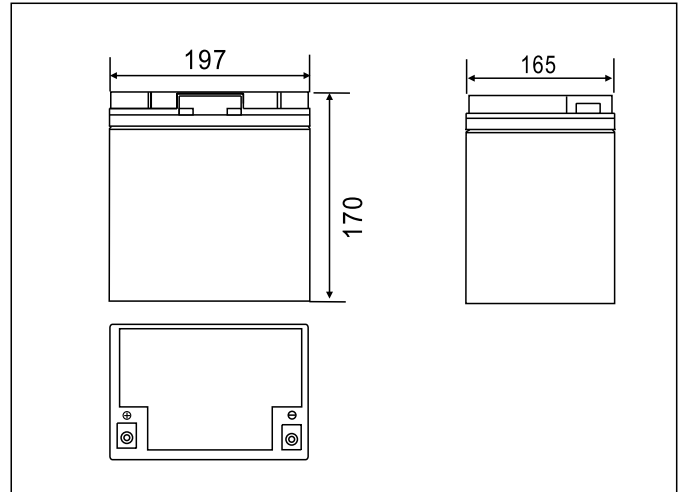
● Characteristics

Capacity 25°C(77°F)	10 hour rate(3.80A) 5 hour rate(6.78A) 1 hour rate(23.6A)	38.0 AH 33.9AH 23.6AH
Internal Resistance	Full charged Battery at 25°C(77°F)	9mΩ
Capacity affected by Temperature (10hour 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 9.5 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

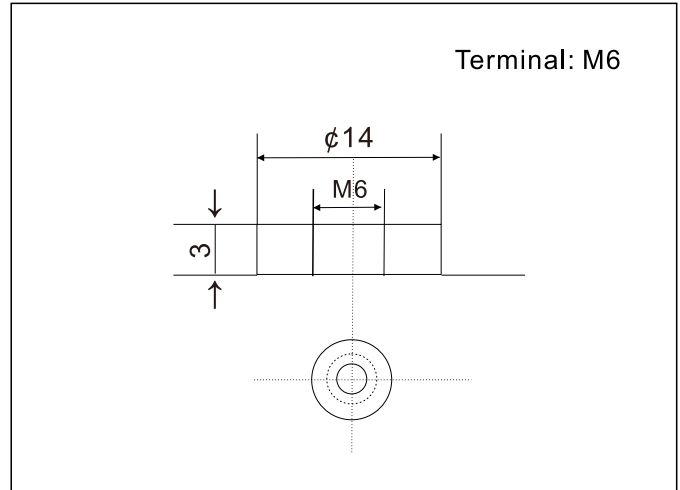
● Applications

- Electric tools
- Electric toys
- Emergency lighting
- Electronic instruments
- Medical equipment
- Alarm and security systems
- Solar power systems
- Wind power systems
- Telecommunication equipments
- Uninterruptible power supplies

● Outer Dimensions (mm)



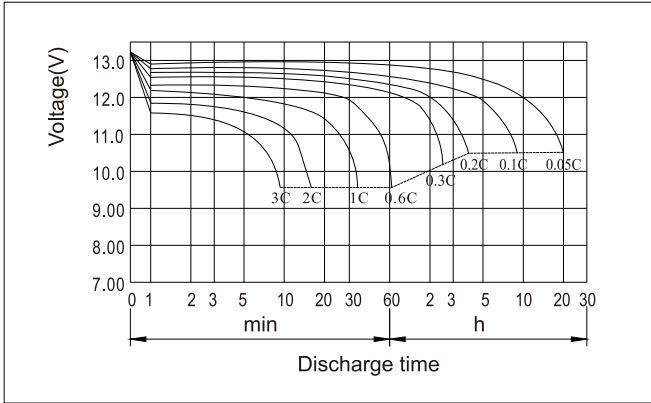
● Terminal Type (mm)



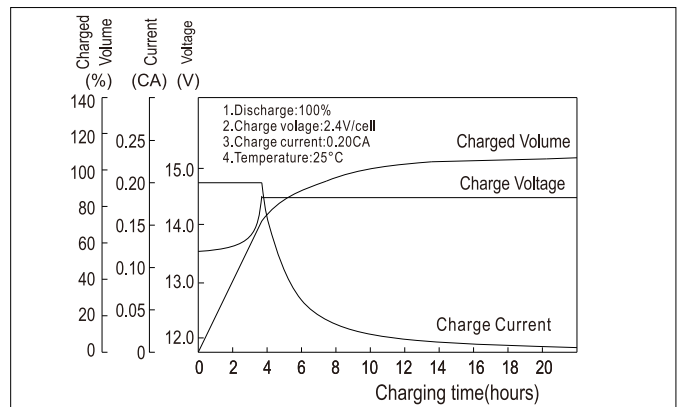
Constant Current(AMP) and Constant Power(Watt) Discharge Table at 25 °C(77°F)

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	79.8	62.7	38.0	23.6	13.9	9.69	7.95	6.78	4.65	2.03
	w	862	688	428	269	161	114	93.4	80.2	55.3	24.4
9.90V	A	77.4	61.2	37.2	23.2	13.8	9.63	7.90	6.74	4.62	2.03
	w	836	672	418	265	160	113	92.9	79.7	54.9	24.3
10.20V	A	74.5	58.9	36.1	22.6	13.7	9.57	7.84	6.70	4.59	2.02
	w	802	647	405	258	158	113	92.3	79.2	54.6	24.3
10.50V	A	71.0	56.9	35.2	22.2	13.5	9.50	7.79	6.65	4.56	2.01
	w	767	625	395	253	156	112	91.6	78.6	54.2	24.1
10.80V	A	67.0	53.9	33.9	21.5	13.1	9.22	7.56	6.45	4.42	2.00
	w	724	592	381	245	152	108	88.9	76.2	52.5	23.9

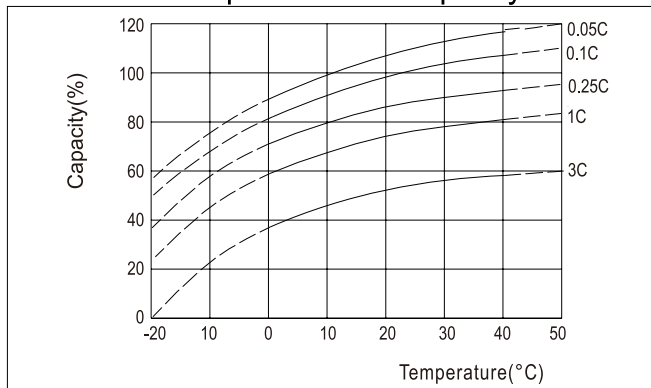
● Discharge Characteristics(25°C)



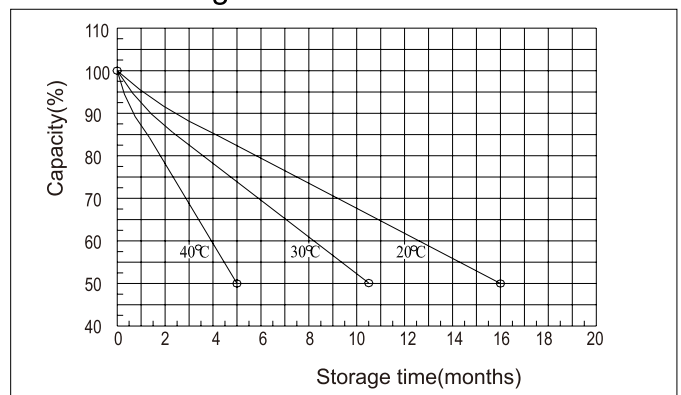
● Charging Characteristics(25°C)



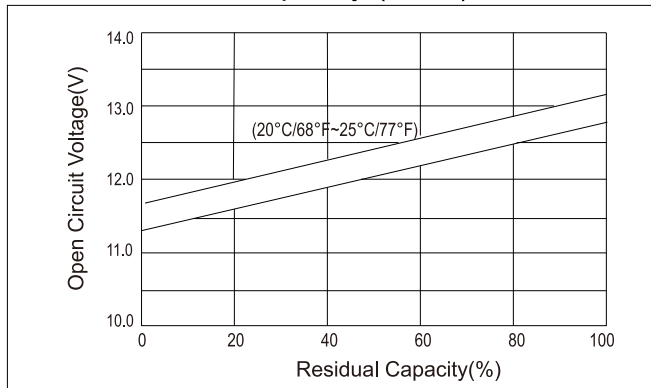
● Effect of Temperature on Capacity



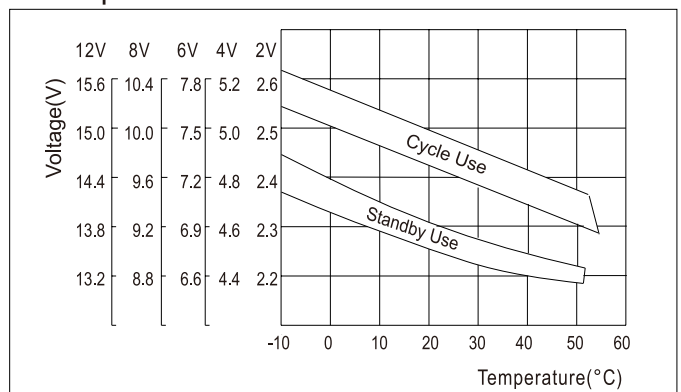
● Self-discharge Characteristics



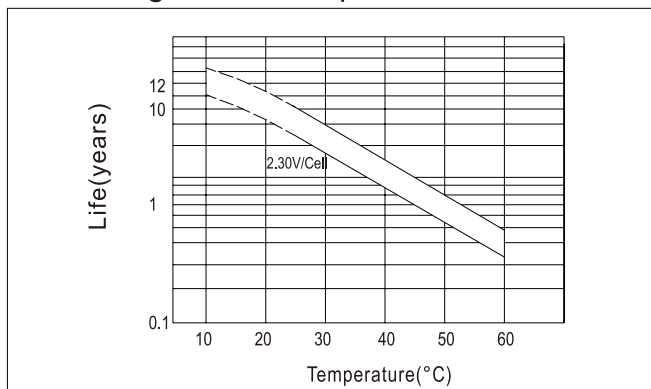
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

