



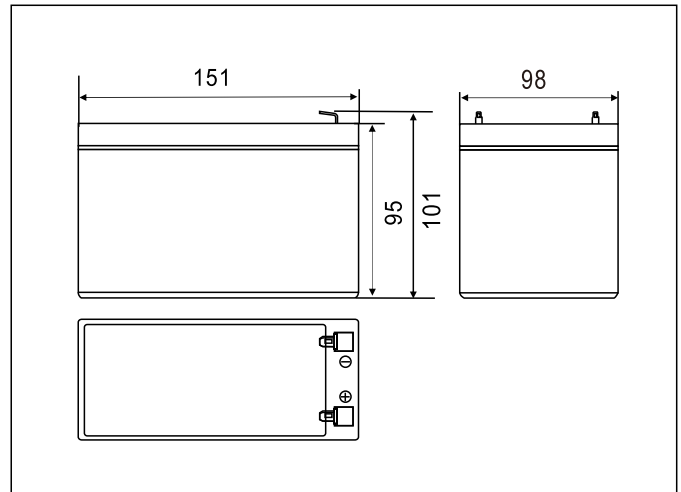
● Applications

- 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

● Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		10Ah
Dimensions	Total Height	101±2mm(3.98 inches)
	Height	95±2mm(3.74 inches)
	Length	151±2mm(5.94 inches)
	Width	98 mm(3.86 inches)
Weight Approx		3.05kg(6.72lbs)± 4%

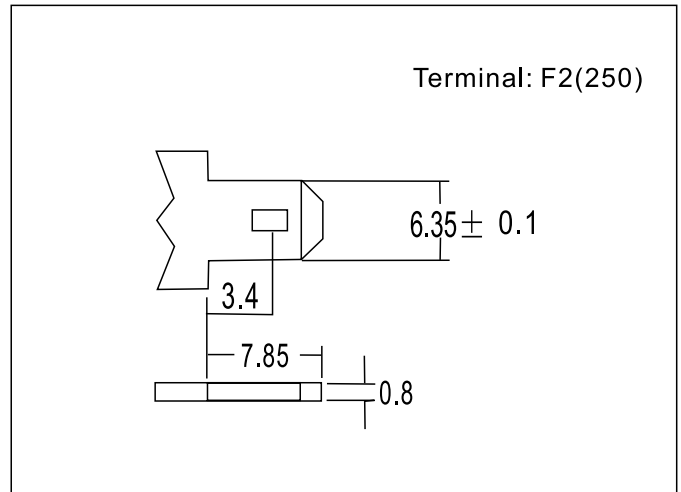
● Outer Dimensions (mm)



● Characteristics

Capacity 25°C(77°F)	20 hour rate(0.50A)	10.0 AH
	10 hour rate(0.94A)	9.40 AH
	5 hour rate(1.72A)	8.60AH
	1 hour rate(6.50 A)	6.50 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	19m Ω
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 3A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

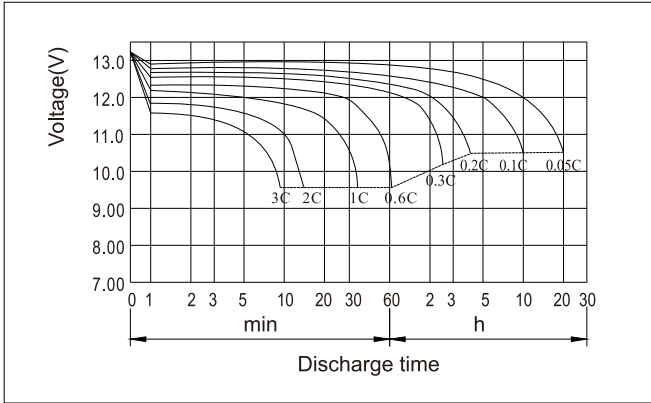
● Terminal Type (mm)



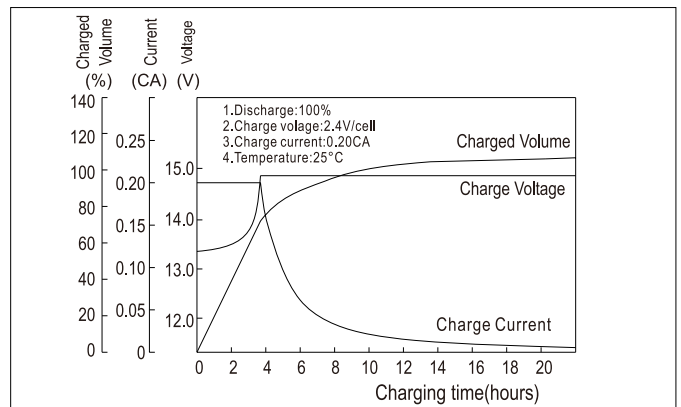
Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	24.0	19.0	10.6	6.50	3.55	2.55	2.04	1.73	1.12	0.51
	w	271	217	121	75.3	41.6	30.3	24.3	20.7	13.5	6.09
9.90V	A	23.3	18.5	10.4	6.40	3.53	2.54	2.03	1.72	1.12	0.51
	w	263	211	119	74.1	41.3	30.1	24.2	20.6	13.4	6.07
10.2V	A	22.3	17.9	10.1	6.24	3.50	2.52	2.01	1.71	1.11	0.50
	w	252.	204	115	72.3	41.0	29.9	24.0	20.4	13.3	6.04
10.5V	A	21.4	17.3	9.83	6.12	3.45	2.50	2.00	1.70	1.10	0.50
	w	241	197	113	70.8	40.3	29.7	23.8	20.3	13.2	6.00
10.8V	A	20.2	16.3	9.47	5.93	3.36	2.43	1.94	1.65	1.07	0.49
	w	227	186	108	68.6	39.3	28.8	23.1	19.7	12.8	5.88

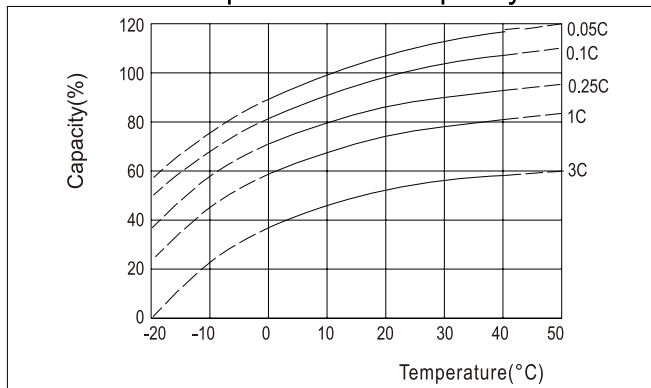
● Discharge Characteristics(25°C)



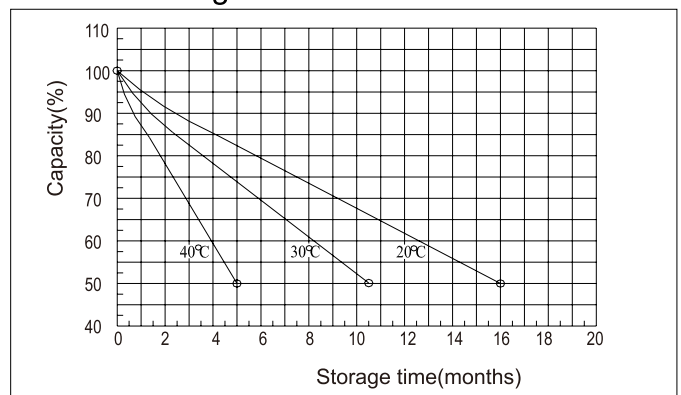
● Charging Characteristics(25°C)



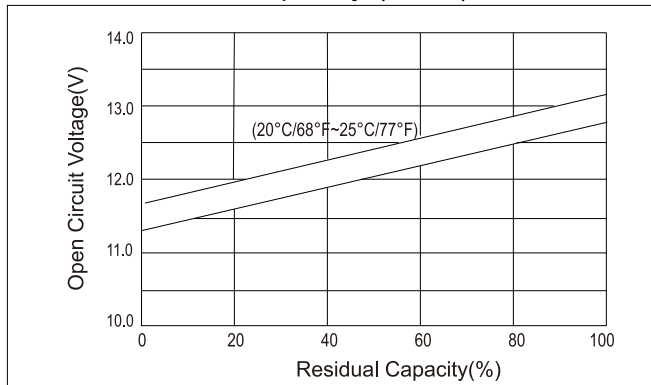
● Effect of Temperature on Capacity



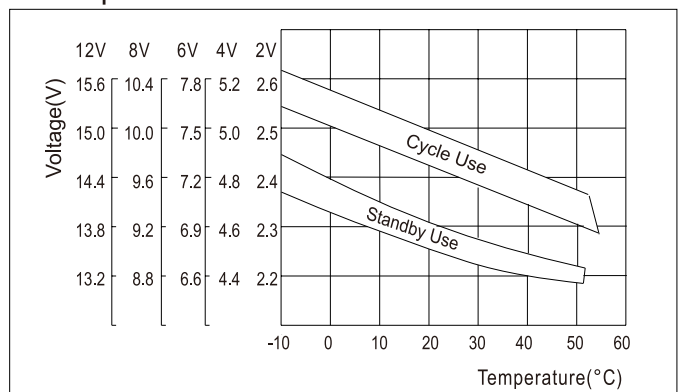
● Self-discharge Characteristics



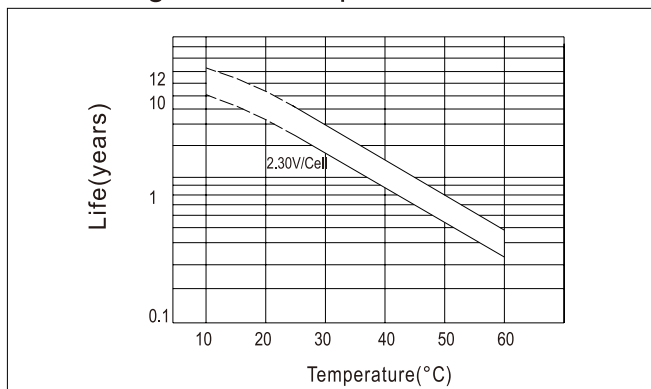
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

