



● Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		7.5Ah
Dimensions	Total Height	101±2mm(3.98 inches)
	Height	95±2mm(3.74 inches)
	Length	151±2mm(5.94 inches)
	Width	65 mm(2.56 inches)
Weight Approx		2.22kg(4.89lbs)± 4%

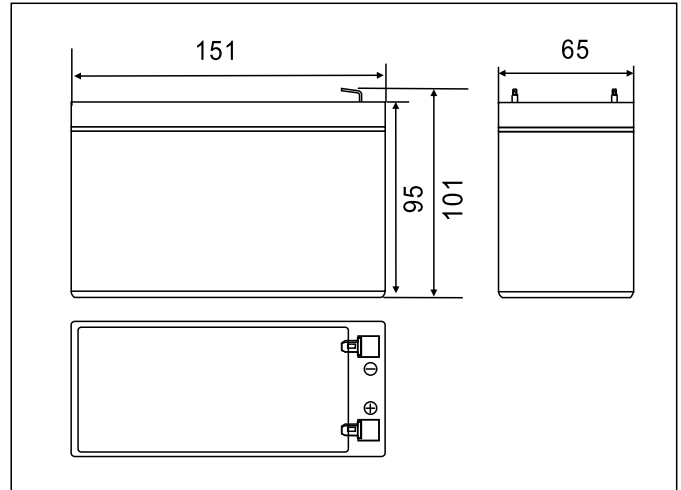
● Characteristics

Capacity 25°C(77°F)	20 hour rate(0.375A)	7.50 AH
	10 hour rate(0.71A)	7.10 AH
	5 hour rate(1.30A)	6.50AH
	1 hour rate(4.88 A)	4.88 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	25m 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 2.25 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

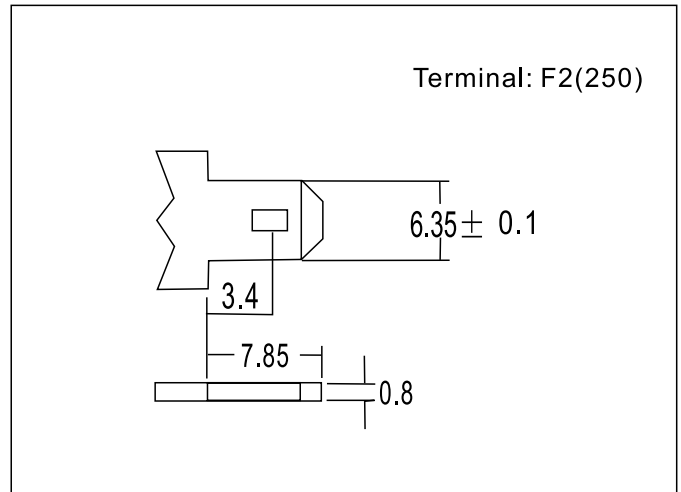
● Applications

- 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)



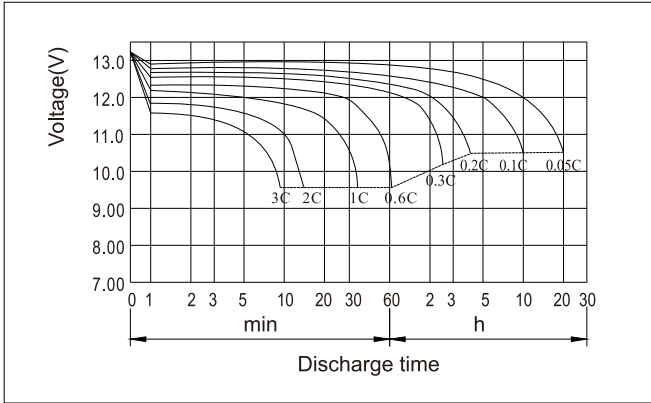
● Terminal Type (mm)



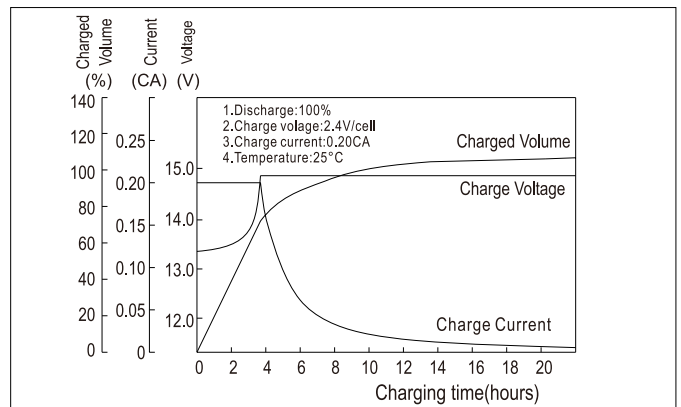
Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
9.60V	A	28.5	18.0	14.3	7.95	4.88	2.66	1.91	1.53	1.30	0.381
	w	318	203	162	91.1	56.5	31.2	22.7	18.2	15.5	4.57
9.90V	A	27.6	17.5	13.9	7.79	4.80	2.65	1.90	1.52	1.29	0.379
	w	309	197	159	89.3	55.6	31.0	22.6	18.1	15.4	4.55
10.2V	A	26.5	16.7	13.4	7.55	4.68	2.63	1.89	1.51	1.25	0.377
	w	296	189	153	86.6	54.2	30.7	22.4	18.0	15.3	4.53
10.5V	A	25.4	16.0	12.9	7.37	4.59	2.59	1.88	1.50	1.28	0.375
	w	283	181	148	84.5	53.1	30.3	22.3	17.9	15.2	4.50
10.8V	A	23.9	15.1	12.3	7.10	4.45	2.52	1.82	1.46	1.24	0.368
	w	267	171	140	81.4	51.5	29.5	21.6	17.3	14.8	4.41

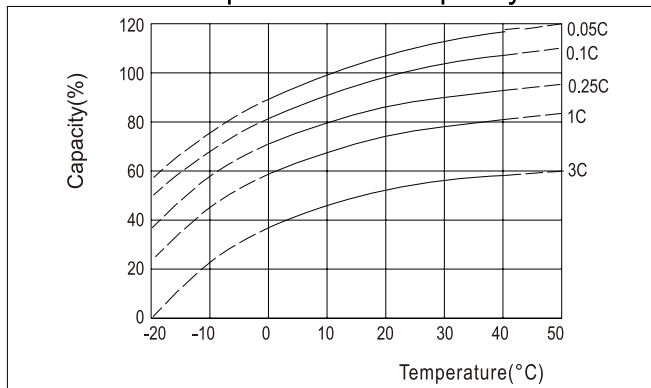
● Discharge Characteristics(25°C)



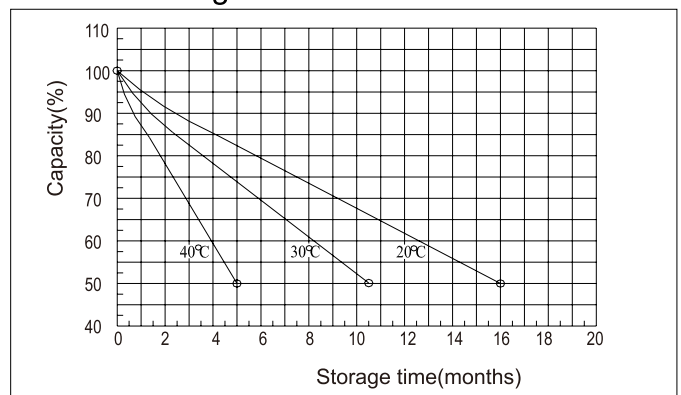
● Charging Characteristics(25°C)



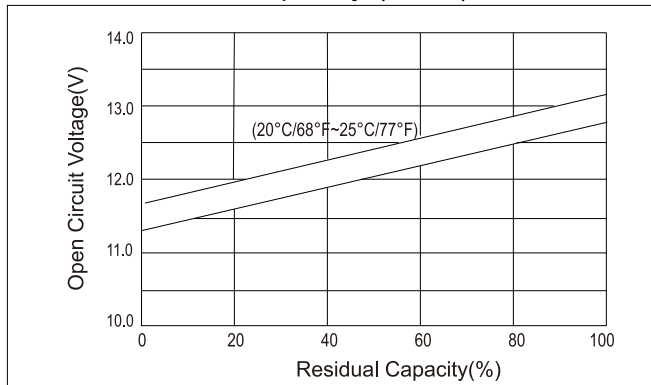
● Effect of Temperature on Capacity



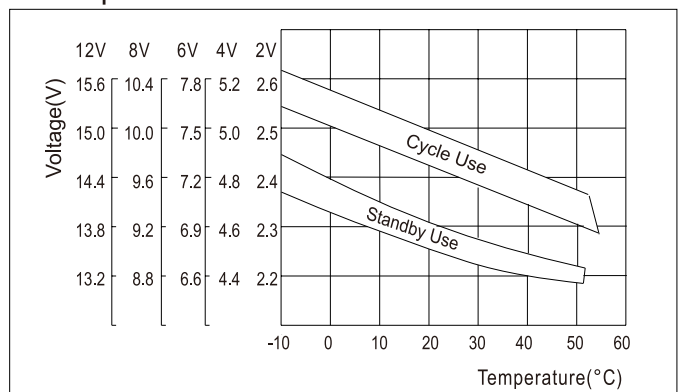
● Self-discharge Characteristics



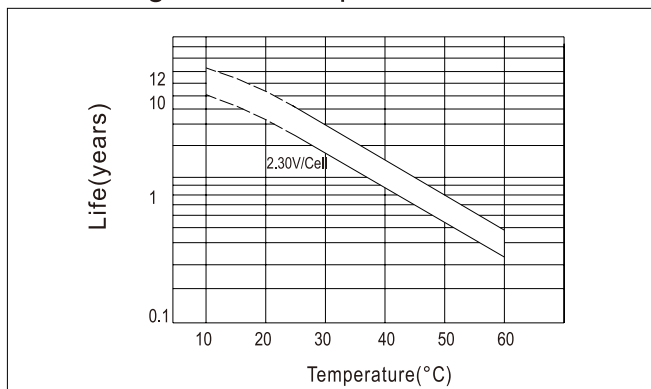
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

