



### Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		5Ah
Dimensions	Total Height	107±2mm(4.21 inches)
	Height	101±2mm(3.98 inches)
	Length	90±2mm(3.54 inches)
	Width	70±2mm(2.76 inches)
Weight Approx		1.51kg(3.32 lbs)± 4%

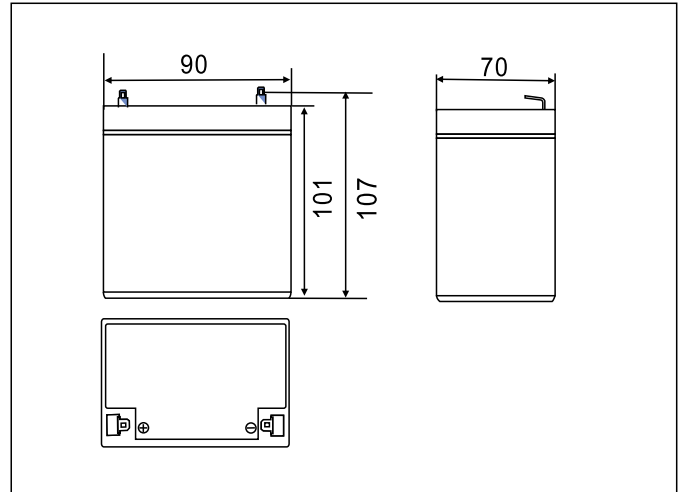
### Characteristics

Capacity 25°C(77°F)	20 hour rate(0.25A)	5.00 AH
	10 hour rate(0.45A)	4.50 AH
	5 hour rate(0.80A)	4.00AH
	1 hour rate(3.00A)	3.00 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	26m 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 1.5 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

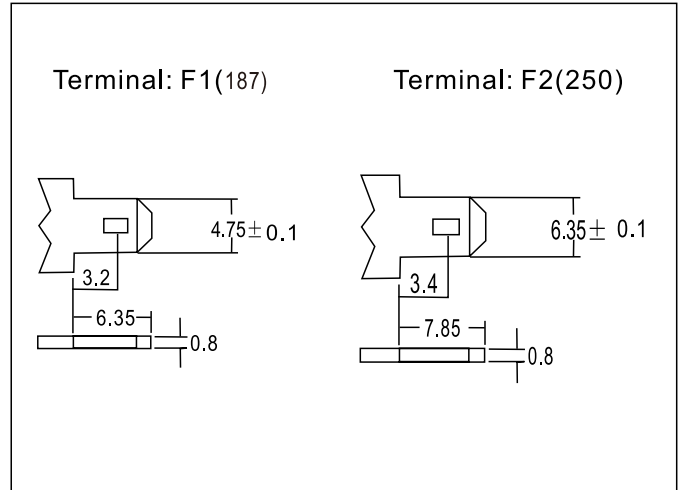
### Applications

- 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)



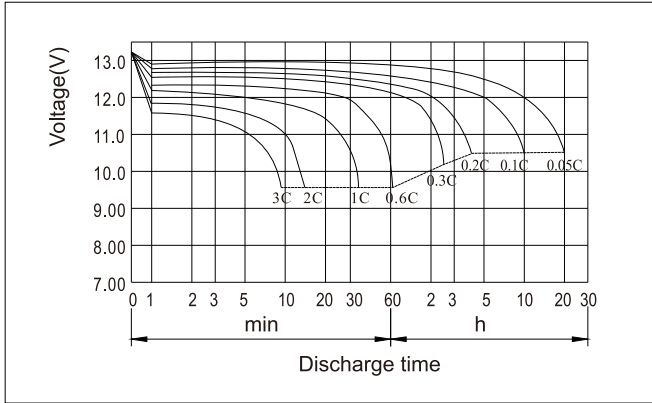
### Terminal Type (mm)



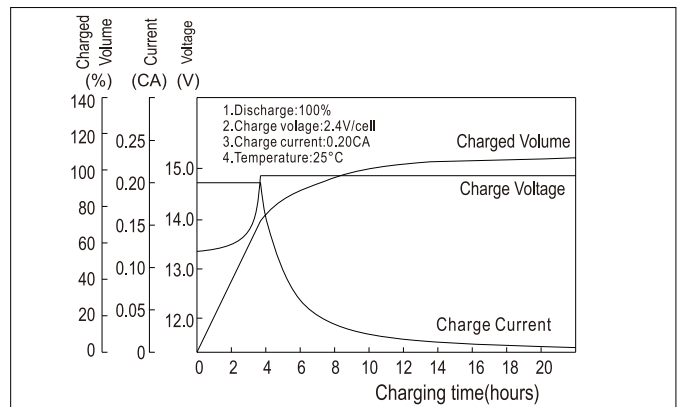
### Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
9.60V	A	19.0	12.0	9.50	5.30	3.25	1.78	1.28	1.02	0.87	0.47
	w	212	135	108	60.7	37.6	20.8	15.1	12.1	10.4	5.66
9.90V	A	18.4	11.6	9.27	5.19	3.20	1.77	1.27	1.01	0.86	0.47
	w	206	131	106	59.5	37.1	20.7	15.1	12.1	10.3	5.64
10.2V	A	17.7	11.2	8.93	5.04	3.12	1.75	1.26	1.01	0.86	0.47
	w	197	126	102	57.7	36.1	20.5	15.0	12.0	10.2	5.61
10.5V	A	16.9	10.7	8.63	4.91	3.06	1.72	1.25	1.00	0.85	0.47
	w	189	120	98.3	56.3	35.4	20.2	14.9	11.9	10.1	5.58
10.8V	A	16.0	10.1	8.17	4.73	2.96	1.68	1.21	0.97	0.82	0.46
	w	178	114	93.1	54.2	34.3	19.7	14.4	11.6	9.84	5.47

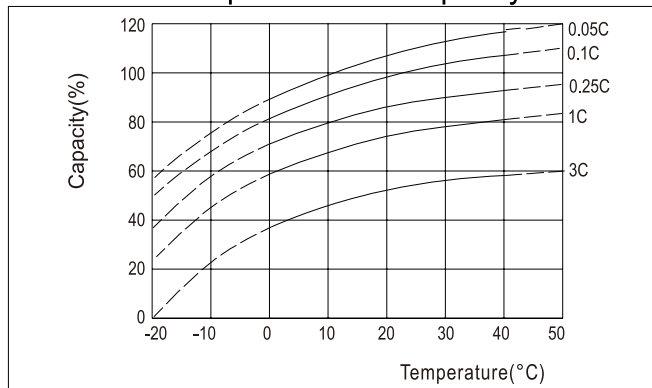
### ● Discharge Characteristics(25°C)



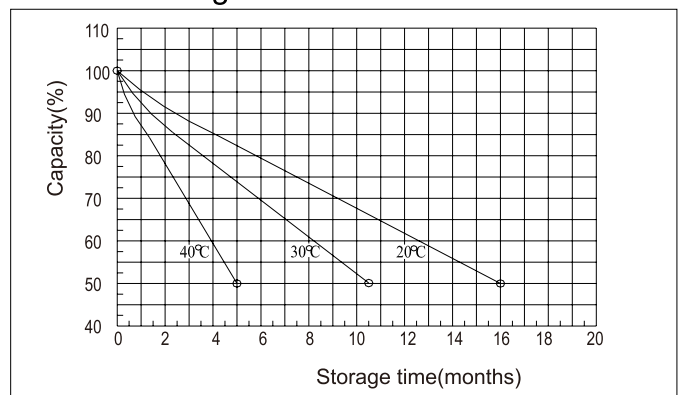
### ● Charging Characteristics(25°C)



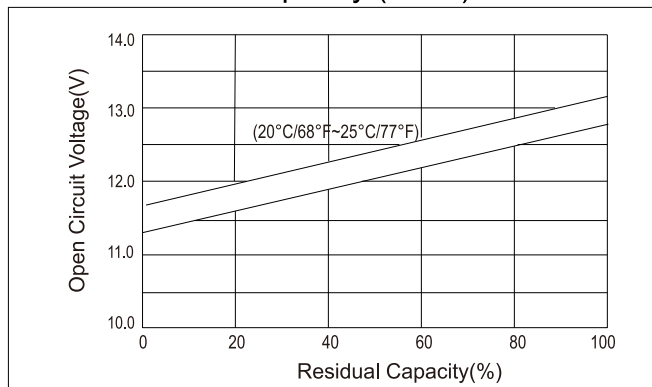
### ● Effect of Temperature on Capacity



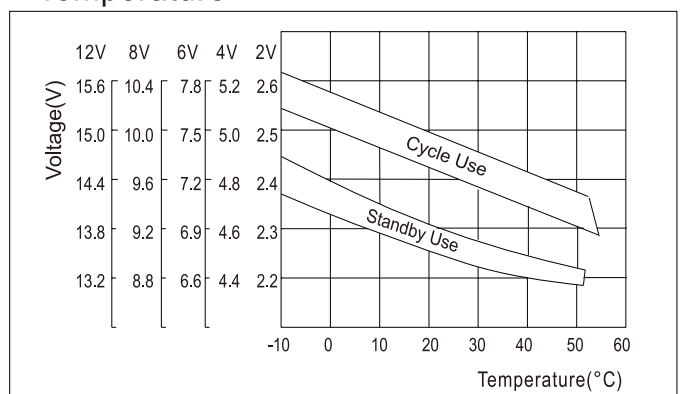
### ● Self-discharge Characteristics



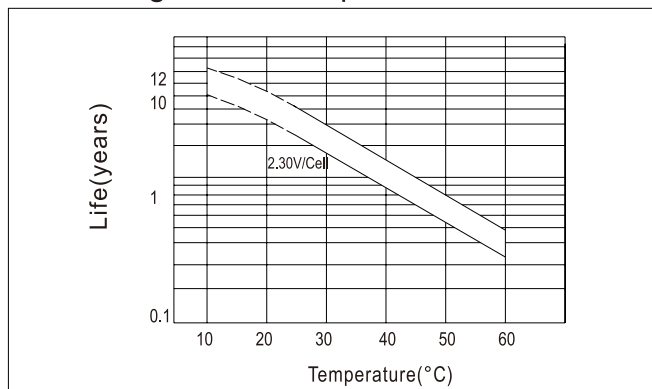
### ● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



### ● The Relationship for Charging Voltage and Temperature



### ● Floating Life on Temperature



### ● Cycle Life on D.O.D (25°C)

