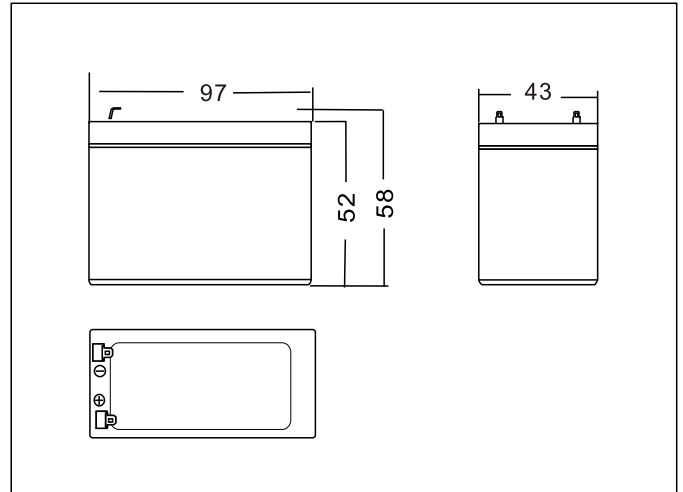




● Applications

- 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)



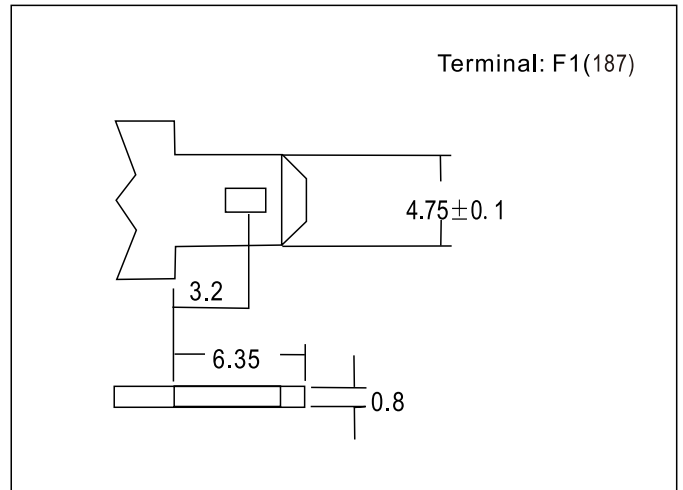
● Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		1.2Ah
Dimensions	Total Height	58±2mm(2.29 inches)
	Height	52±2mm(2.05 inches)
	Length	97±2mm(3.82inches)
	Width	43±2mm(1.69 inches)
Weight Approx		0.51kg(1.12 lbs)± 4%

● Characteristics

Capacity 25°C(77°F)		20 hour rate(0.060A)	1.20 AH
		10 hour rate(0.113A)	1.13AH
		5 hour rate(0.208A)	1.04AH
		1hour rate(0.78A)	0.78 AH
Internal Resistance		Full charged Battery at 25°C(77°F)	90mΩ
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 0.36 A Voltage 14.50-14.90V	
	Float	Voltage 13.50-13.80V	

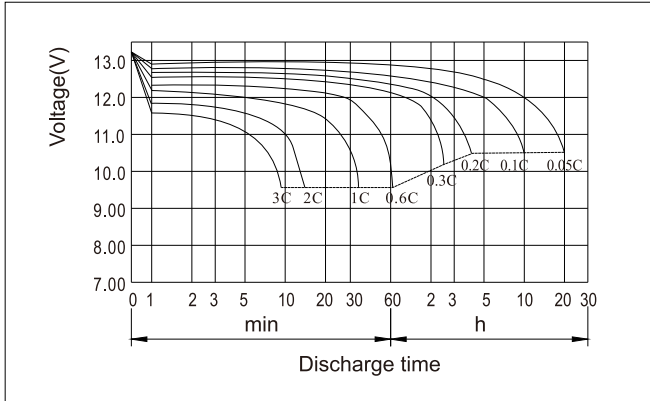
● Terminal Type (mm)



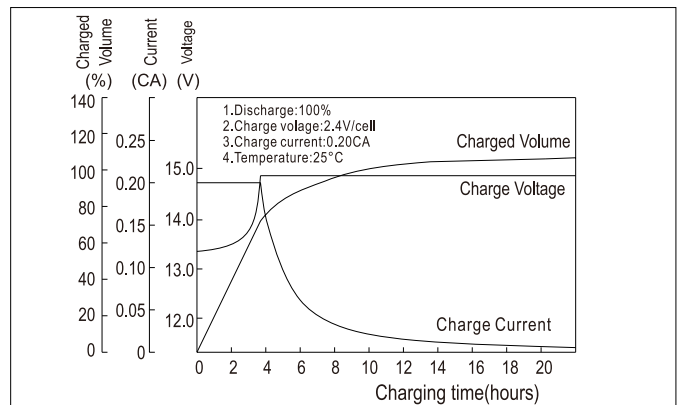
Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
9.60V	A	4.56	2.88	2.28	1.27	0.78	0.43	0.306	0.245	0.209	0.113
	w	50.9	32.5	26.0	14.6	9.04	4.99	3.64	2.92	2.48	1.36
9.90V	A	4.42	2.79	2.23	1.25	0.77	0.42	0.304	0.243	0.208	0.113
	w	49.4	31.5	25.4	14.3	8.95	4.96	3.61	2.91	2.47	1.35
10.2V	A	4.24	2.68	2.14	1.21	0.75	0.42	0.302	0.242	0.205	0.112
	w	47.3	30.2	24.4	13.8	8.73	4.91	3.59	2.88	2.45	1.35
10.5V	A	4.06	2.56	2.07	1.18	0.73	0.41	0.301	0.240	0.241	0.112
	w	45.3	28.9	23.6	13.5	8.52	4.84	3.56	2.86	2.44	1.34
10.8V	A	3.83	2.42	1.96	1.14	0.71	0.40	0.291	0.233	0.199	0.109
	w	42.7	27.3	22.4	13.0	8.19	4.72	3.46	2.78	2.37	1.31

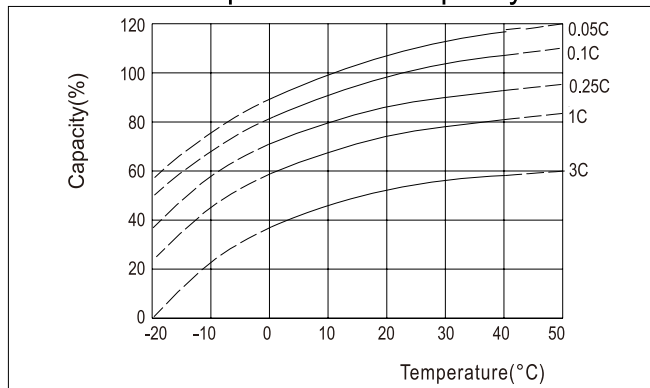
● Discharge Characteristics(25°C)



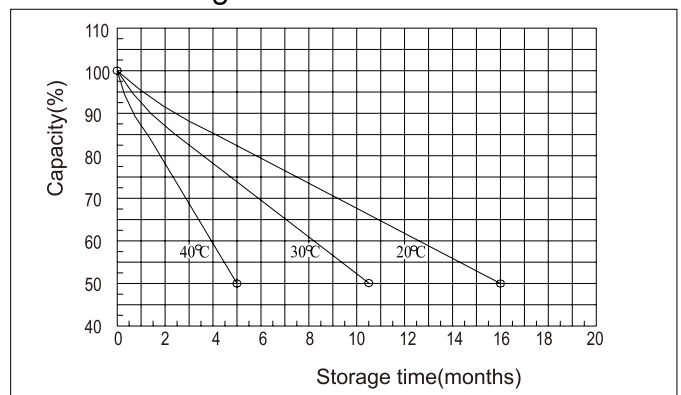
● Charging Characteristics(25°C)



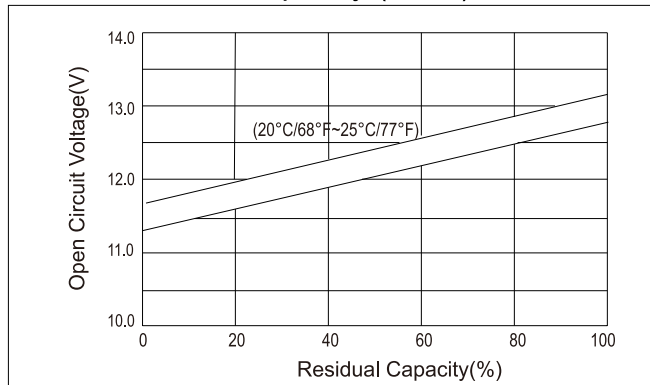
● Effect of Temperature on Capacity



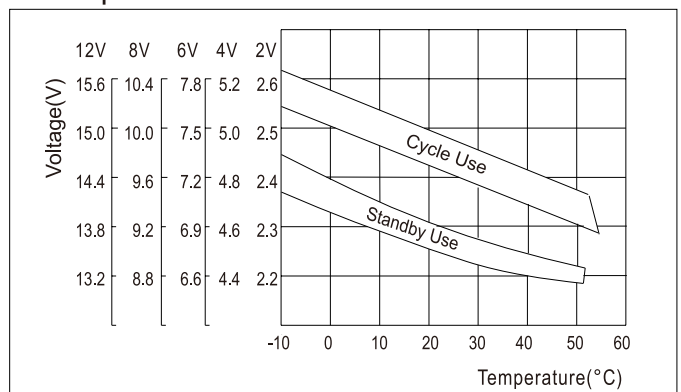
● Self-discharge Characteristics



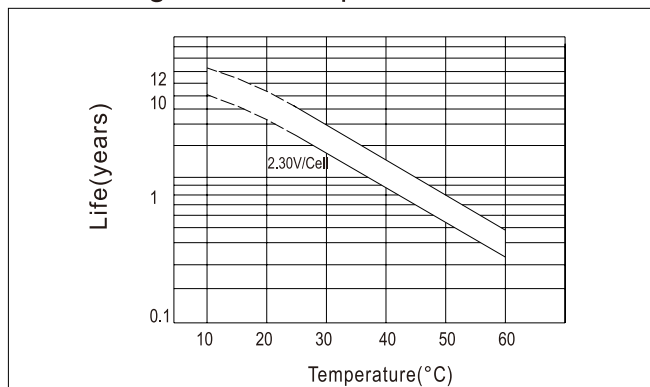
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

