



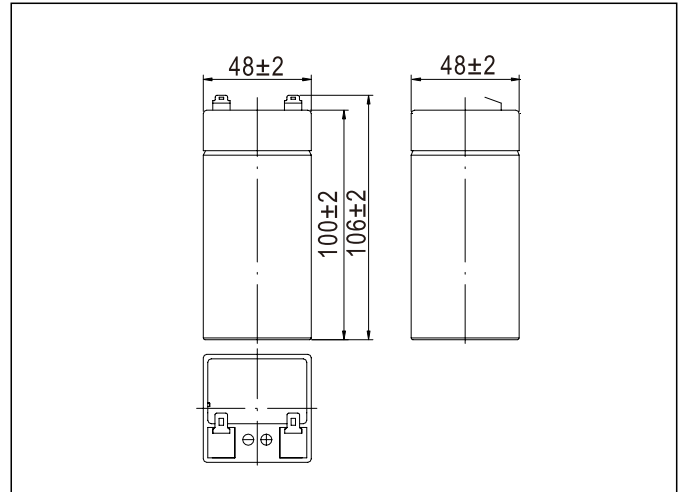
### ● Applications

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

### ● Specifications

Nominal Voltage		4V
Rated Capacity (20 hour rate)		4Ah
Dimensions	Total Height	106±2mm(4.19 inches)
	Height	100±2mm(3.95 inches)
	Length	48±2mm(8.30 inches)
	Width	48±2mm(8.30 inches)
Weight Approx		0.45kg(0.99 lbs)± 4%

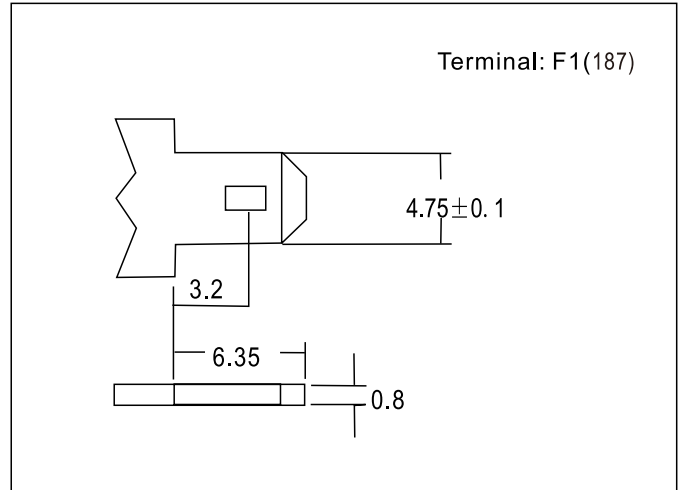
### ● Outer Dimensions (mm)



### ● Characteristics

Capacity 25°C(77°F)	20 hour rate(0.225A)	4.00 AH
	10 hour rate(0.38A)	3.80 AH
	5 hour rate(0.70A)	3.50AH
	1hour rate(2.40A)	2.40 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	18m 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 1.2 A Voltage 7.20-7.50V
	Float	Voltage 6.75-6.90V

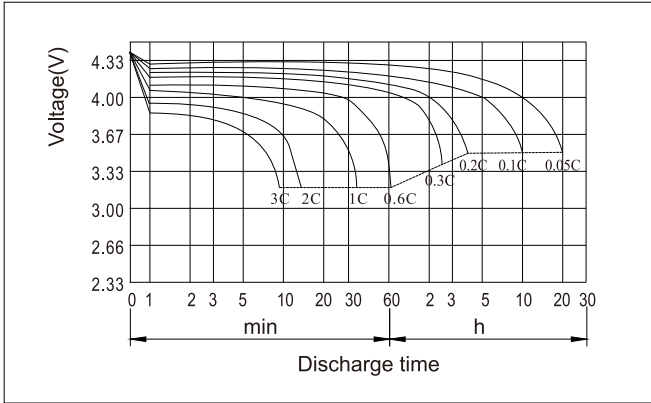
### ● Terminal Type (mm)



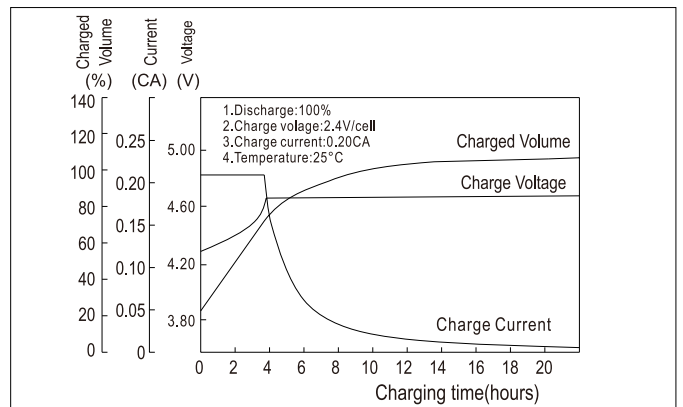
### Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h	
3.20V	A	14.4	9.02	7.01	4.60	2.40	1.40	1.03	0.83	0.70	0.46	0.38	0.21
	w	50.9	32.6	25.0	16.6	8.72	5.09	3.78	3.03	2.60	1.72	1.41	0.77
3.30V	A	13.7	8.95	6.82	4.45	2.34	1.37	1.02	0.82	0.69	0.46	0.37	0.20
	w	49.6	32.4	24.6	16.5	8.56	5.07	3.77	3.03	2.58	1.71	1.40	0.76
3.40V	A	13.2	8.83	6.43	4.37	2.25	1.34	1.00	0.80	0.69	0.45	0.37	0.20
	w	48.6	32.0	23.9	16.4	8.45	5.06	3.76	3.02	2.57	1.71	1.40	0.76
3.50V	A	12.2	8.44	6.01	4.23	2.18	1.32	0.98	0.76	0.68	0.44	0.36	0.19
	w	45.7	31.7	22.6	16.1	8.28	5.03	3.75	2.91	2.56	1.70	1.39	0.75
3.60V	A	11.2	8.07	5.60	4.04	2.11	1.28	0.97	0.75	0.65	0.43	0.35	0.18
	w	42.2	30.7	21.4	15.6	8.11	4.94	3.74	2.90	2.52	1.68	1.38	0.73

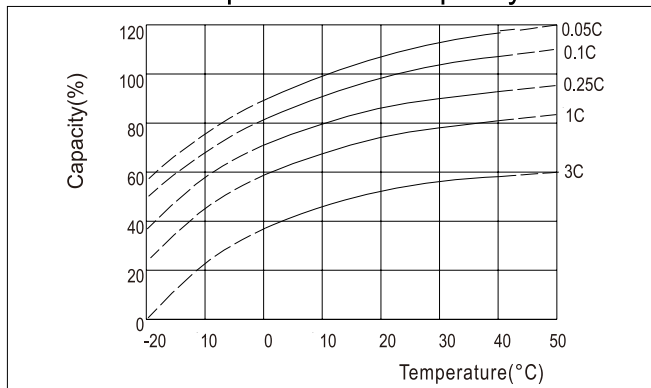
### ● Discharge Characteristics(25°C)



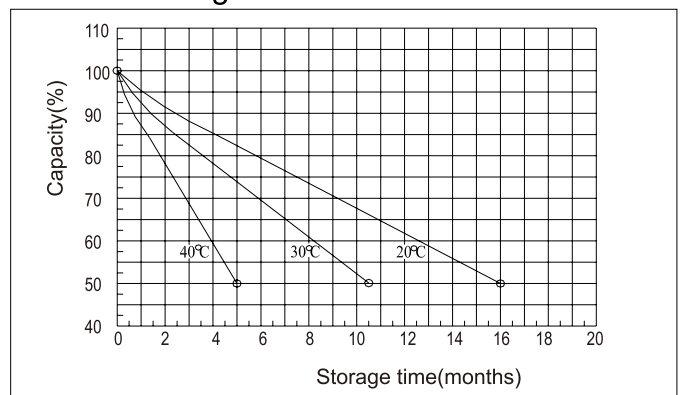
### ● Charging Characteristics(25°C)



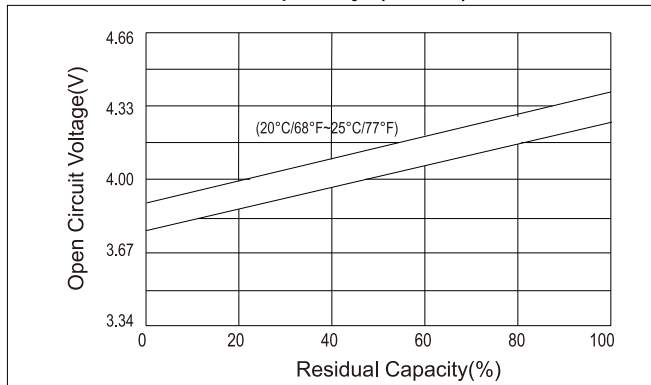
### ● Effect of Temperature on Capacity



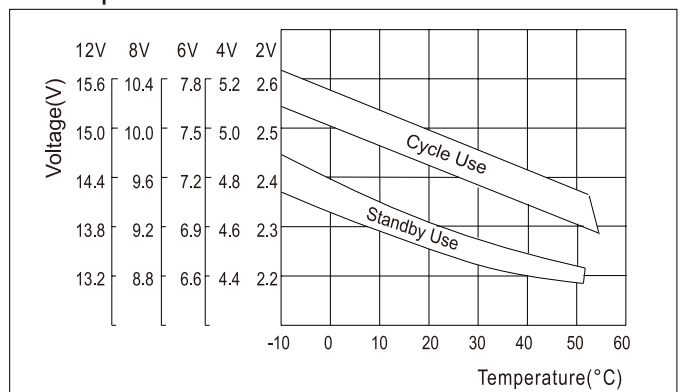
### ● Self-discharge Characteristics



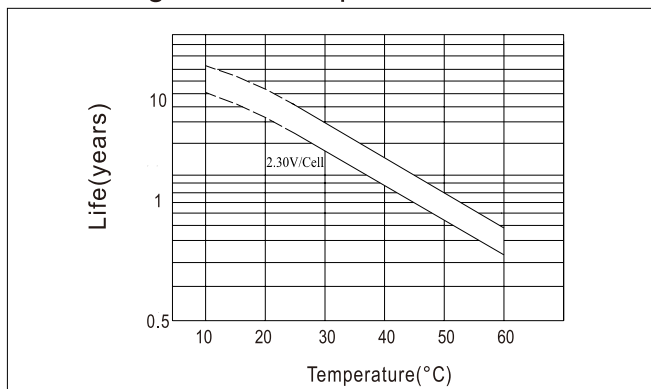
### ● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



### ● The Relationship for Charging Voltage and Temperature



### ● Floating Life on Temperature



### ● Cycle Life on D.O.D (25°C)

