



Specifications

Nominal Voltage		4V
Rated Capacity (20 hour rate)		4.5Ah
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		0.47kg(1.04 lbs)± 4%

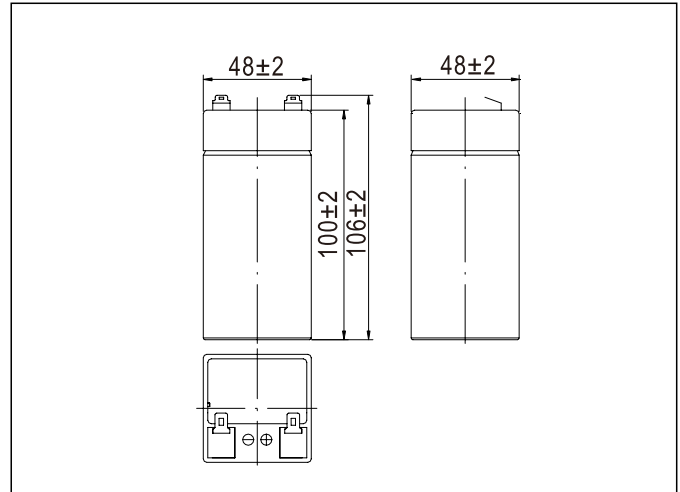
Characteristics

Capacity 25°C(77°F)	20 hour rate(0.225A)	4.50 AH
	10 hour rate(0.42A)	4.20 AH
	5 hour rate(0.78A)	3.90AH
	1hour rate(2.93A)	2.93 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	17m 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 1.35 A Voltage 7.20-7.50V
	Float	Voltage 6.75-6.90V

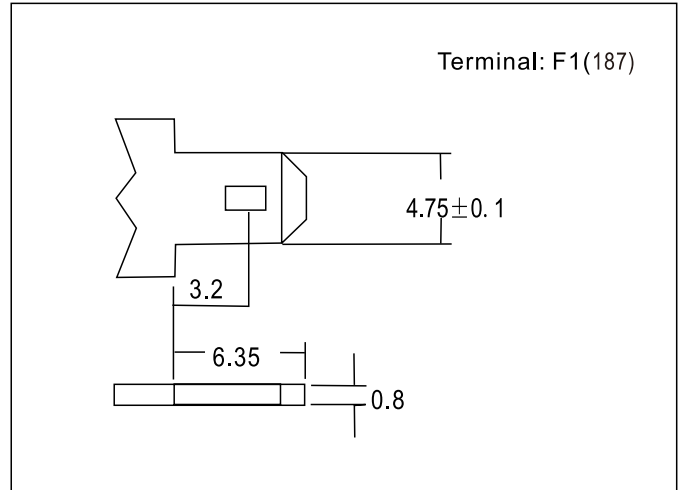
Applications

- 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)



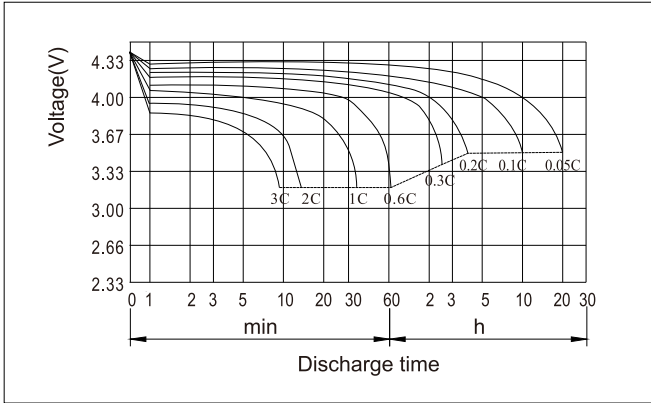
Terminal Type (mm)



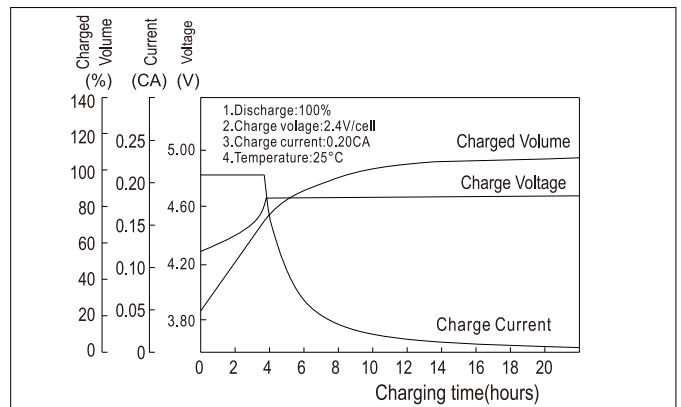
Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
3.20V	A	17.1	10.8	8.55	4.77	2.93	1.60	1.15	0.92	0.78	0.58	0.228
	w	63.6	40.6	32.5	18.2	11.3	6.23	4.54	3.64	3.11	2.27	0.91
3.30V	A	16.6	10.5	8.34	4.67	2.88	1.59	1.14	0.91	0.78	0.58	0.227
	w	61.7	39.4	31.7	17.9	11.1	6.20	4.52	3.62	3.09	2.25	0.91
3.40V	A	15.9	10.0	8.04	4.53	2.81	1.58	1.13	0.91	0.77	0.56	0.226
	w	59.2	37.8	30.5	17.3	10.8	6.14	4.49	3.60	3.07	2.23	0.91
3.50V	A	15.2	9.61	7.76	4.42	2.75	1.55	1.13	0.90	0.77	0.55	0.225
	w	56.6	36.1	29.5	16.9	10.6	6.05	4.46	3.57	3.04	2.19	0.90
3.60V	A	14.4	9.07	7.35	4.26	2.67	1.51	1.09	0.87	0.74	0.52	0.221
	w	53.4	34.1	27.9	16.3	5.15	5.90	4.32	3.47	2.95	2.11	0.88

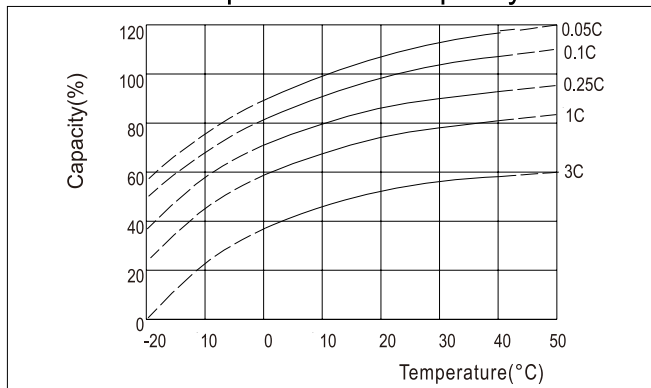
● Discharge Characteristics(25°C)



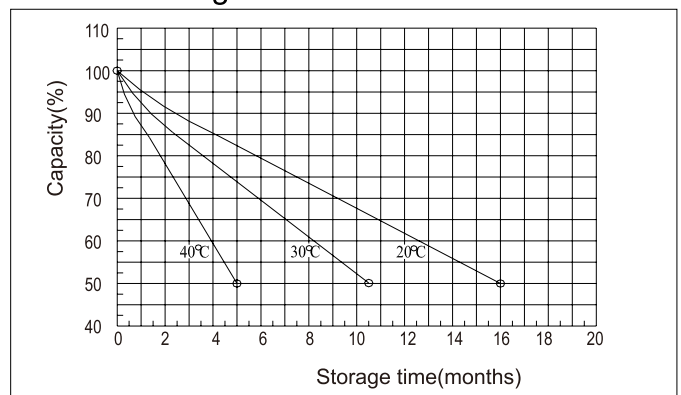
● Charging Characteristics(25°C)



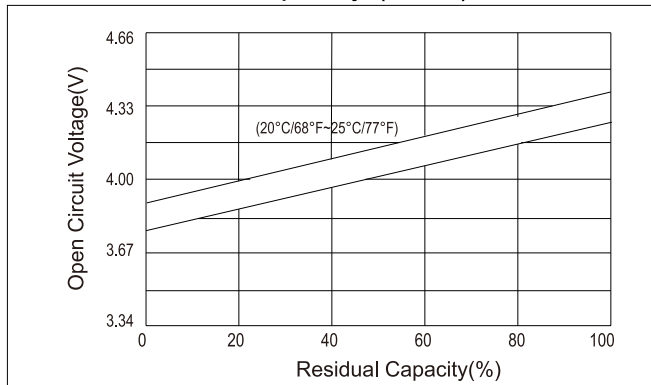
● Effect of Temperature on Capacity



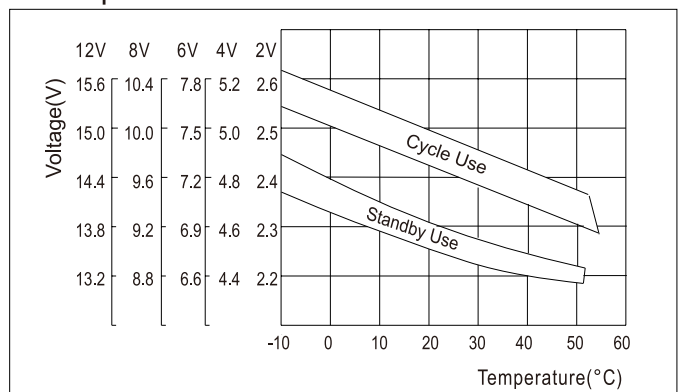
● Self-discharge Characteristics



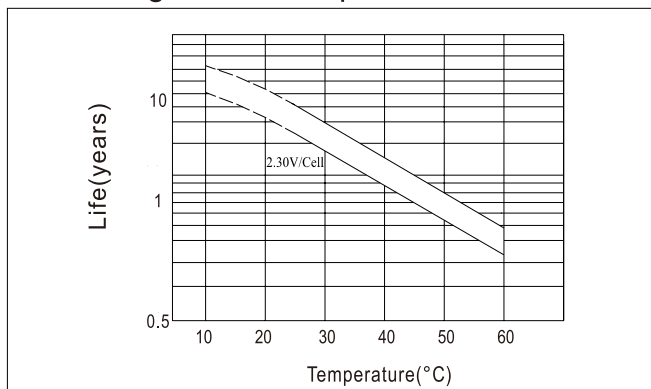
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

