



Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		3.2Ah
Dimensions	Total Height	67±2mm(2.64 inches)
	Height	61±2mm(2.40 inches)
	Length	134±2mm(5.28 inches)
	Width	67±2mm(2.64 inches)
Weight Approx		1.3kg(2.86 lbs)± 4%

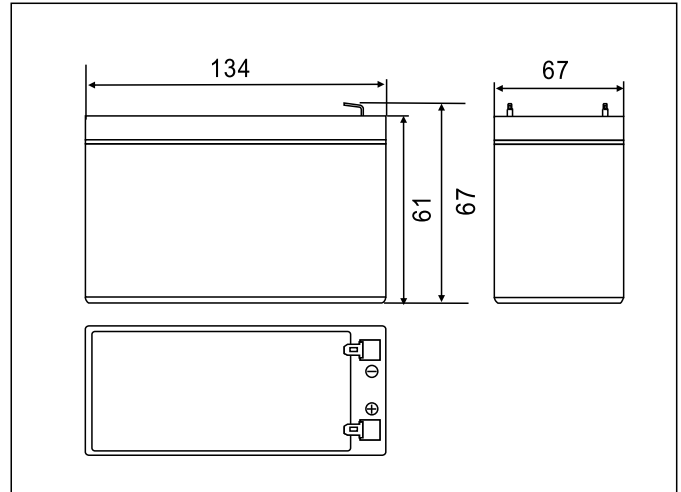
Characteristics

Capacity 25°C(77°F)	20 hour rate(0.16A)	3.20 AH
	10 hour rate(0.30A)	3.00 AH
	5 hour rate(0.56A)	2.80AH
	1 hour rate(2.10A)	2.10 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	50mΩ
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 0.96 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

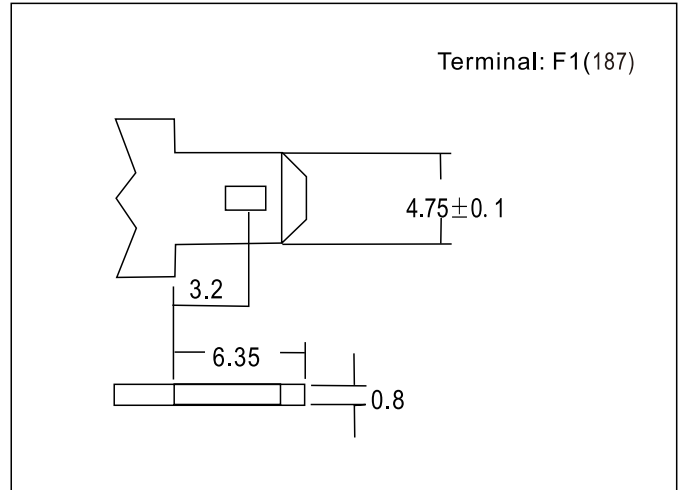
Applications

- 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)



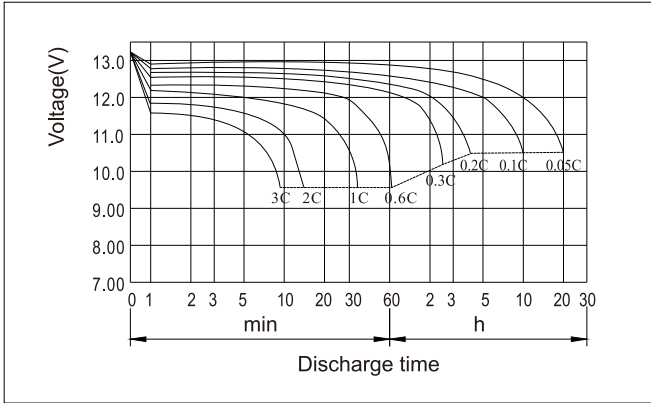
Terminal Type (mm)



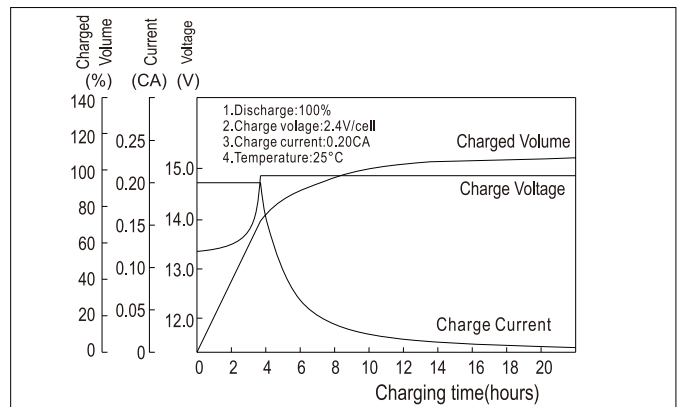
Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h	
9.60V	A	12.0	8.10	5.70	3.45	2.10	1.05	0.87	0.62	0.56	0.30	0.16
	w	127.4	86.0	60.5	36.6	20.8	12.2	8.94	7.18	6.09	3.29	1.80
9.90V	A	10.8	7.37	5.12	3.28	1.69	1.01	0.75	0.60	0.52	0.28	0.15
	w	119.9	81.8	56.9	36.4	19.5	11.7	8.69	6.95	5.98	3.23	1.75
10.2V	A	10.21	7.02	4.80	3.17	1.64	0.99	0.74	0.57	0.50	0.28	0.15
	w	115.7	79.5	54.4	36.0	18.9	11.4	8.54	6.60	5.94	3.20	1.74
10.5V	A	9.50	6.65	4.50	3.09	1.58	0.96	0.73	0.56	0.49	0.27	0.15
	w	110.5	77.3	52.4	35.9	18.4	11.2	8.44	6.52	5.68	3.13	1.70
10.8V	A	9.00	6.30	4.20	3.00	1.52	0.94	0.69	0.55	0.47	0.26	0.14
	w	107.1	74.9	49.9	35.6	18.1	11.1	8.19	6.50	5.55	3.06	1.69

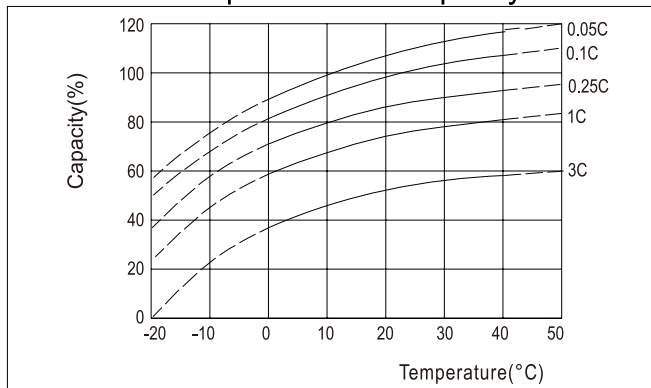
● Discharge Characteristics(25°C)



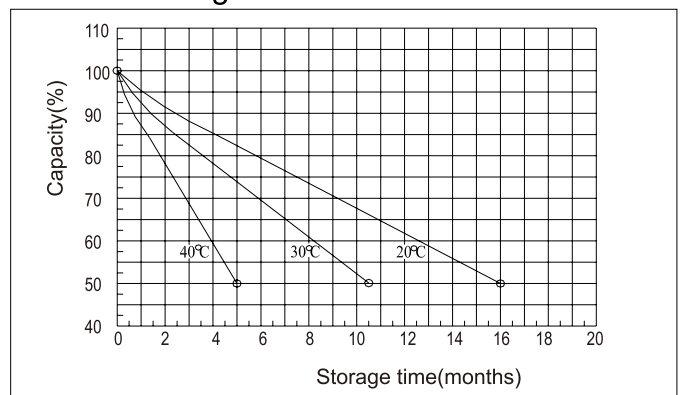
● Charging Characteristics(25°C)



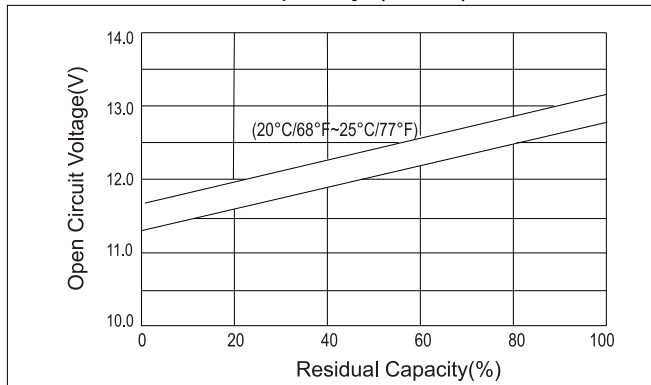
● Effect of Temperature on Capacity



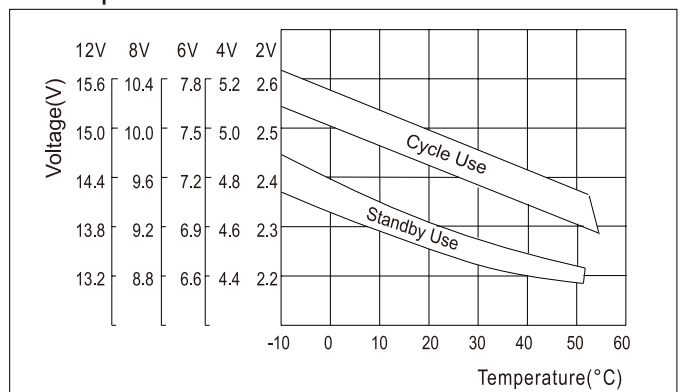
● Self-discharge Characteristics



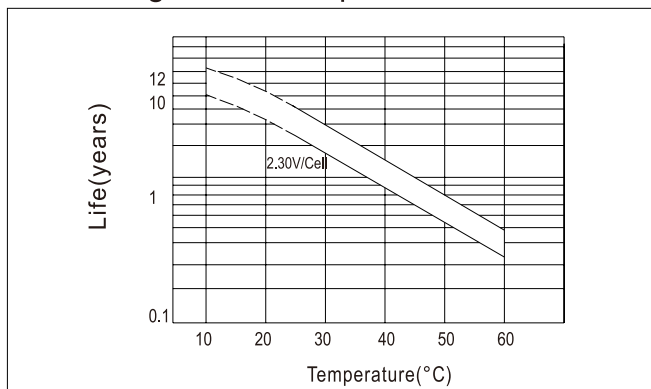
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

