



Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		12Ah
Dimensions	Total Height	101±2mm(3.98 inches)
	Height	95±2mm(3.74 inches)
	Length	151±2mm(5.94 inches)
	Width	98 mm(3.86 inches)
Weight Approx		3.78kg(8.34lbs)± 4%

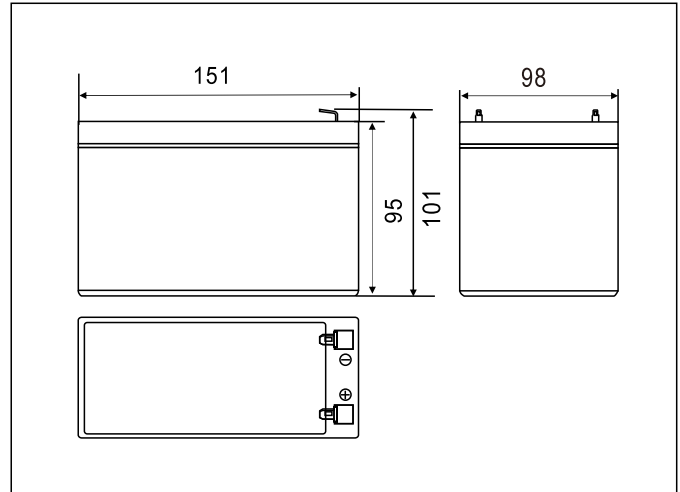
Characteristics

Capacity 25°C(77°F)	20 hour rate(0.70A)	14.0 AH
	10 hour rate(1.31A)	13.1 AH
	5 hour rate(2.44A)	12.2AH
	1hour rate(9.01A)	9.01 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	19m 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 3.6A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

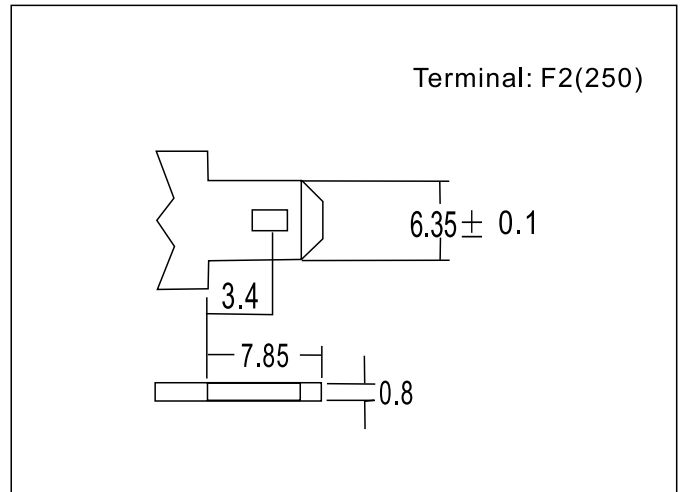
Applications

- 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)



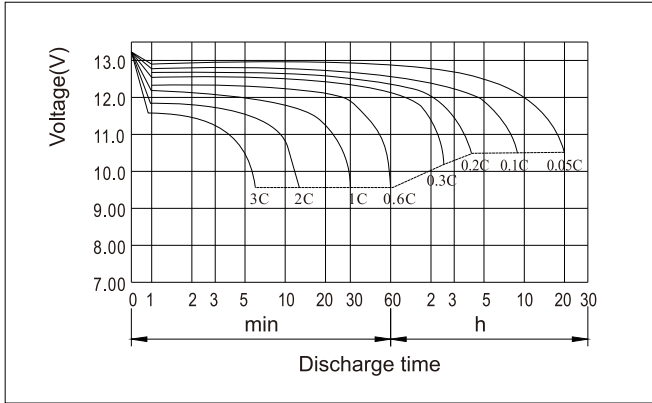
Terminal Type (mm)



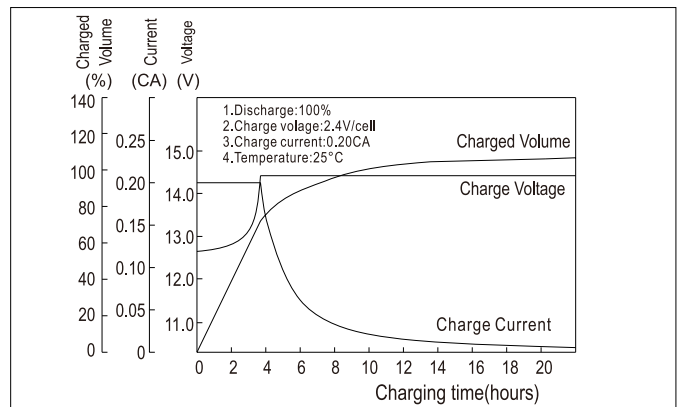
Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h	
9.60V	A	29.4	23.0	12.8	7.88	4.26	3.06	2.45	2.08	1.35	1.13	0.61
	w	331	263	147	91.2	49.9	36.4	29.2	24.8	16.2	13.6	7.31
9.90V	A	28.5	22.5	12.6	7.76	4.24	3.04	2.43	2.07	1.34	1.13	0.61
	w	321	256	144	89.9	49.6	36.1	29.0	24.8	16.1	13.5	7.28
10.2V	A	27.3	21.6	12.2	7.56	4.20	3.02	2.42	2.05	1.33	1.12	0.60
	w	308	247	140	87.6	49.1	35.9	28.8	24.5	16.0	13.5	7.24
10.5V	A	26.1	20.9	11.98	7.41	4.14	3.00	2.40	2.04	1.32	1.12	0.60
	w	295	238	136	85.8	48.4	35.6	28.6	24.4	15.8	13.4	7.20
10.8V	A	24.7	19.8	11.5	7.18	4.03	2.91	2.33	1.98	1.28	1.09	0.59
	w	278	226	131	83.2	47.2	34.6	27.7	23.6	15.4	13.1	7.06

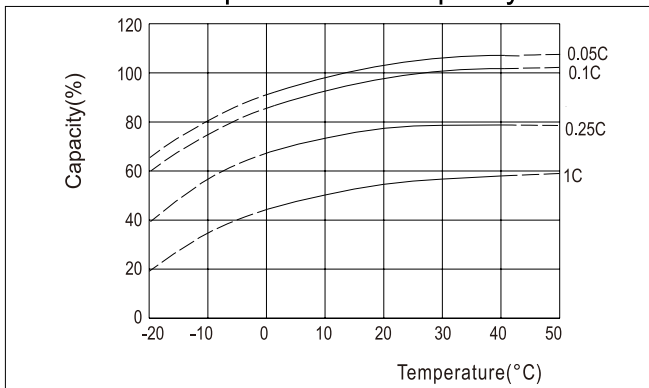
● Discharge Characteristics(25°C)



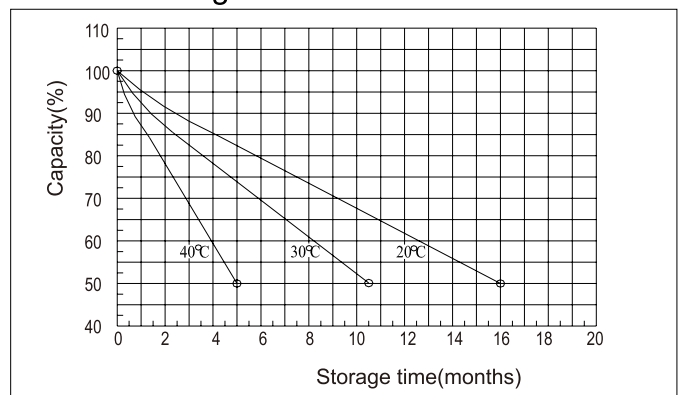
● Charging Characteristics(25°C)



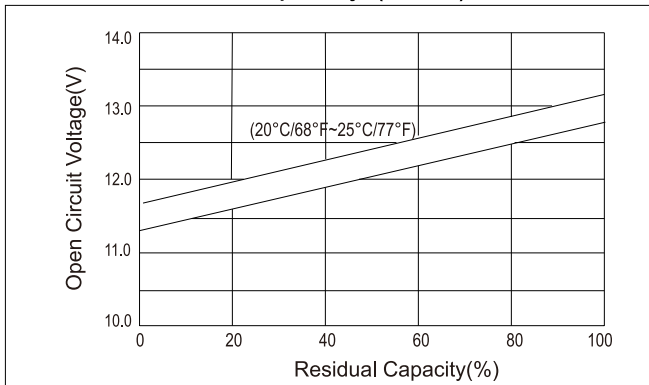
● Effect of Temperature on Capacity



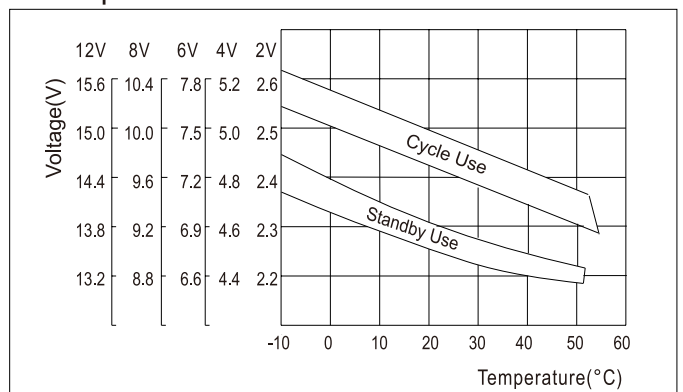
● Self-discharge Characteristics



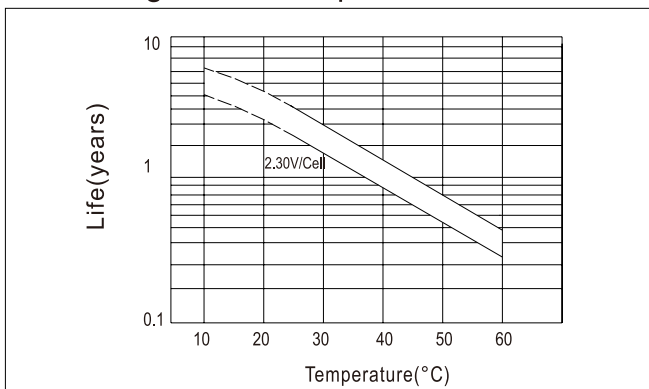
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

