



● Specifications

Nominal Voltage		12V
Rated Capacity (10 hour rate)		45Ah
Dimensions	Total Height	170±2mm(6.69 inches)
	Height	170±2mm(6.69 inches)
	Length	197±2mm(7.74 inches)
	Width	165±2mm(6.50 inches)
Weight Approx		13.2kg(29.04 lbs)±4%

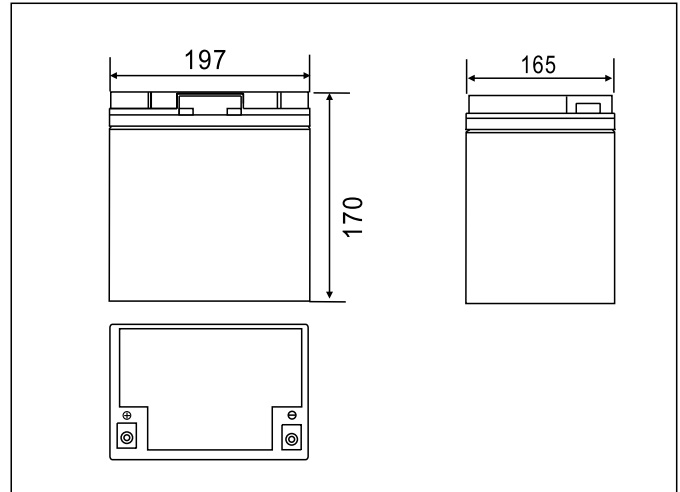
● Characteristics

Capacity 25°C(77°F)	10 hour rate(4.5A) 5 hour rate(8.0A) 1hour rate(27.9A)	45 AH 40AH 27.9AH
Internal Resistance	Full charged Battery at 25°C(77°F)	8m Ω
Capacity affected by Temperature (10hour 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 11.25 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

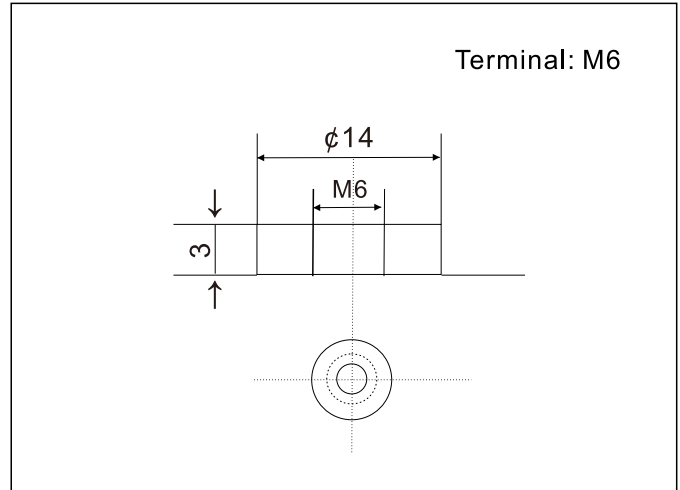
● Applications

- 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)



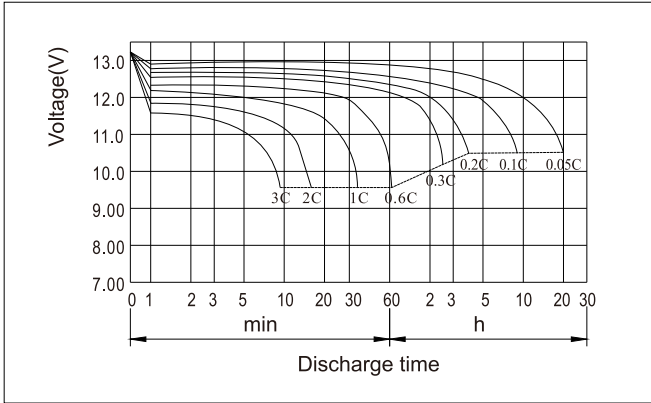
● Terminal Type (mm)



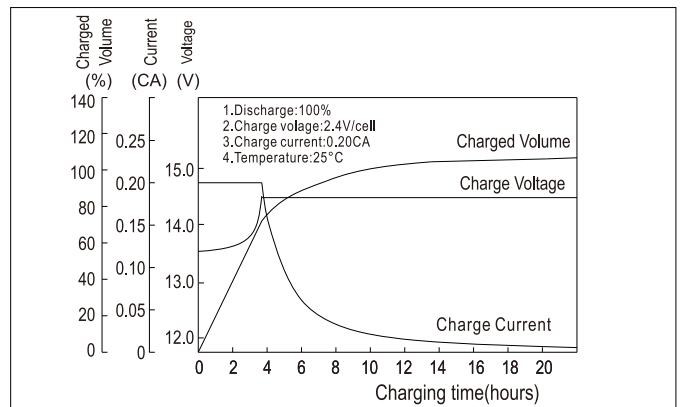
Constant Current(AMP) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	94.5	74.3	45.0	27.9	16.4	11.5	9.41	8.03	5.51	2.41
	w	1021	815	505	318	190	135	111	94.9	65.4	28.9
9.90V	A	91.7	72.5	44.1	27.5	16.3	11.4	9.35	7.99	5.48	2.40
	w	990	796	495	313	189	134	110	94.4	65.1	28.8
10.20V	A	87.9	69.8	42.8	26.8	16.2	11.3	9.29	7.93	5.44	2.39
	w	949	766	480	305	188	133	109	93.7	64.6	28.7
10.50V	A	84.1	67.4	41.7	26.3	16.0	11.3	9.23	7.88	5.40	2.38
	w	908	740	468	299	185	132	108	93.1	64.2	28.5
10.80V	A	79.4	63.9	40.2	25.4	15.6	10.9	7.95	7.64	5.24	2.36
	w	857	701	451	290	180	128	105	90.3	62.2	28.4

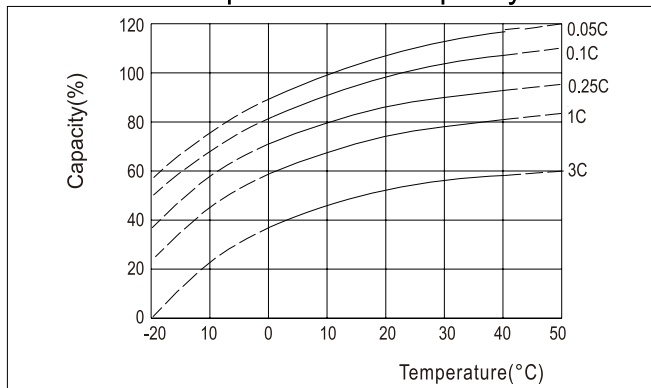
● Discharge Characteristics(25°C)



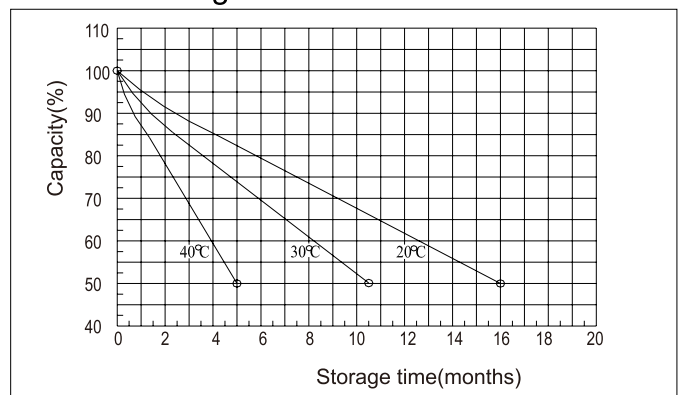
● Charging Characteristics(25°C)



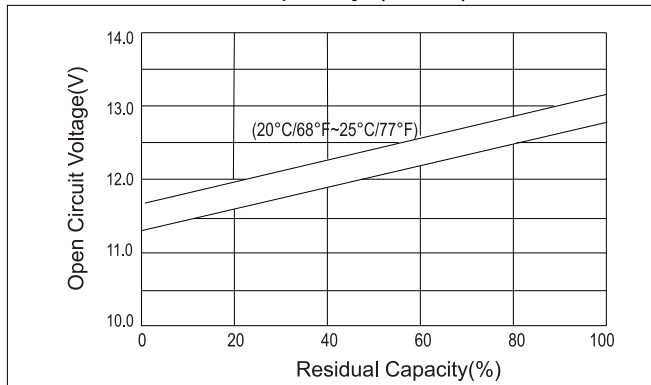
● Effect of Temperature on Capacity



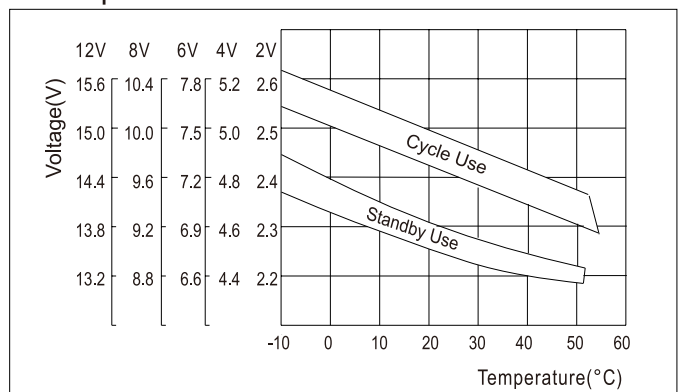
● Self-discharge Characteristics



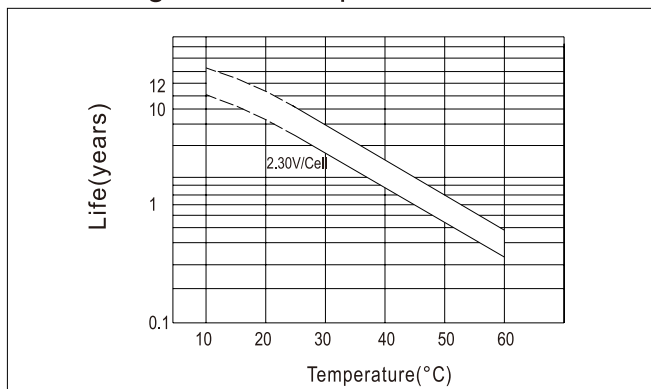
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

