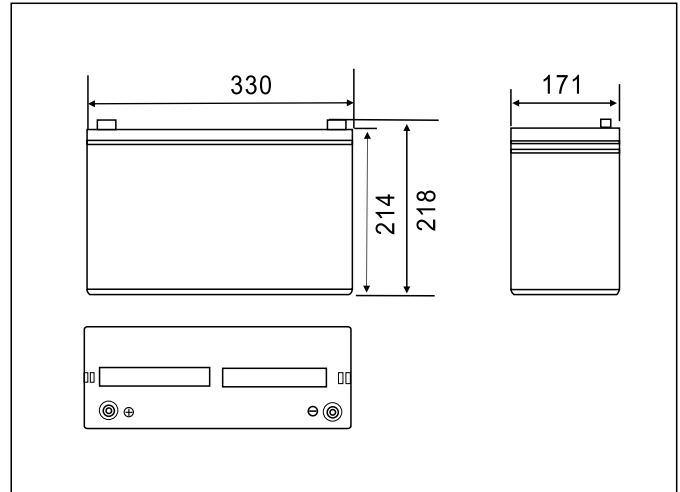




### ● Applications

- 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)



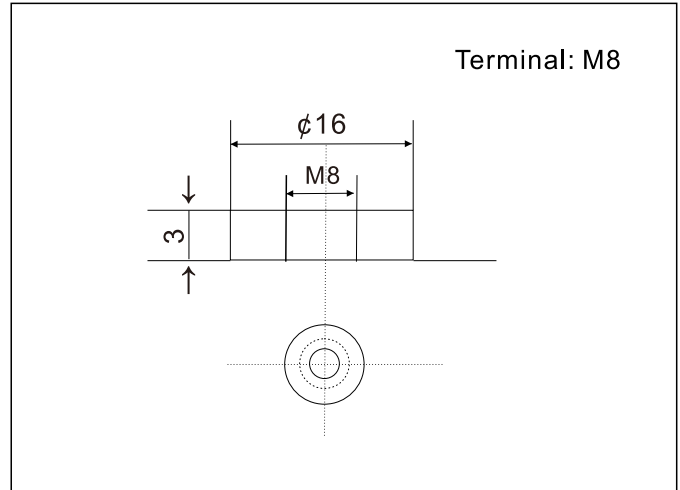
### ● Specifications

Nominal Voltage		12V
Rated Capacity (10 hour rate)		100Ah
Dimensions	Total Height	218±2mm(8.58inches)
	Height	214±2mm(8.43 inches)
	Length	330±2mm(13.0 inches)
	Width	171±2mm(6.73 inches)
Weight Approx		28.5kg(59.59 lbs)±4%

### ● Characteristics

Capacity 25°C(77°F)	10 hour rate(10A) 5 hour rate(17A) 1hour rate(62A)	100 AH 85 AH 62AH
Internal Resistance	Full charged Battery at 25°C(77°F)	3mΩ
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 25 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

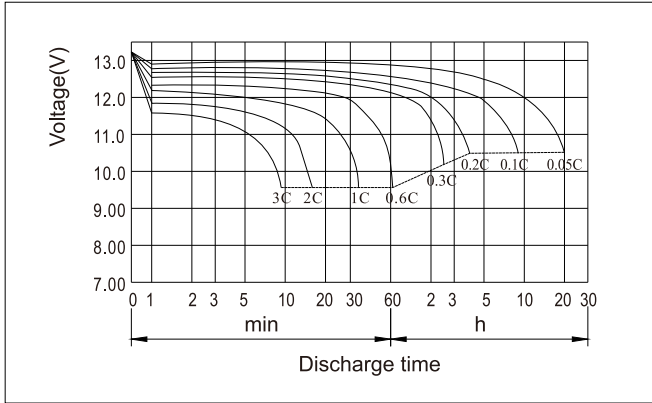
### ● Terminal Type (mm)



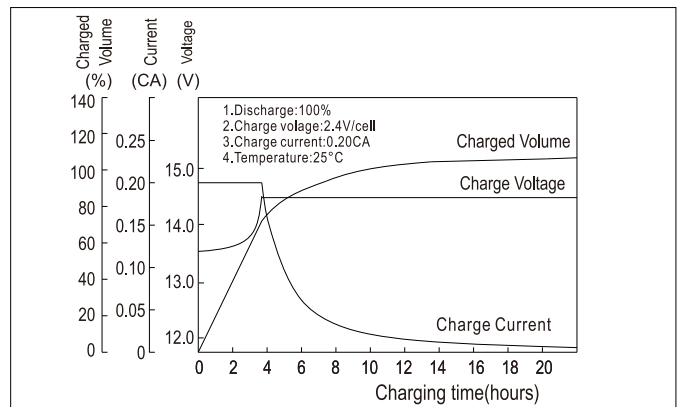
### Constant Current(AMP) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time		10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	210	165	100	62.0	36.5	25.5	20.9	17.9	12.2	10.2	5.34
	w	2268	1812	1122	707	423	300	246	211	145	122	64.1
9.90V	A	204	161	98.0	61.1	36.3	25.4	20.8	17.7	12.2	10.2	5.33
	w	2200	1768	1100	696	421	298	244	210	145	121	64.0
10.20V	A	195	155	95.0	59.5	36.0	25.2	20.6	17.6	12.1	10.1	6.32
	w	2109	1703	1066	679	417	296	243	208	144	121	63.8
10.50V	A	187	150	92.7	58.3	35.5	25.0	20.5	17.5	12.0	10.1	5.29
	w	2019	1645	1040	665	411	294	241	207	143	120	63.4
10.80V	A	176	142	89.3	56.5	34.6	24.3	19.9	17.0	11.6	10.0	5.25
	w	1905	1558	1002	645	400	285	234	201	138	119	63.0

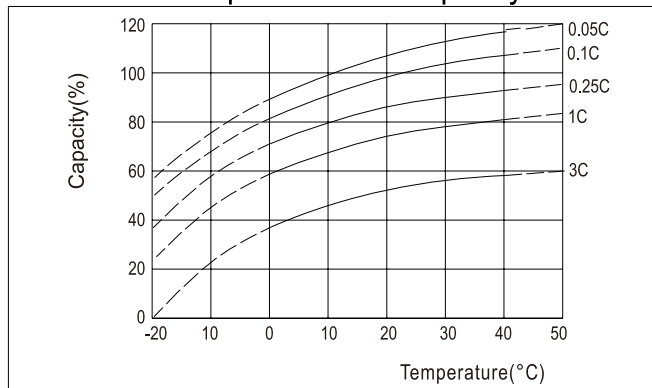
## ● Discharge Characteristics(25°C)



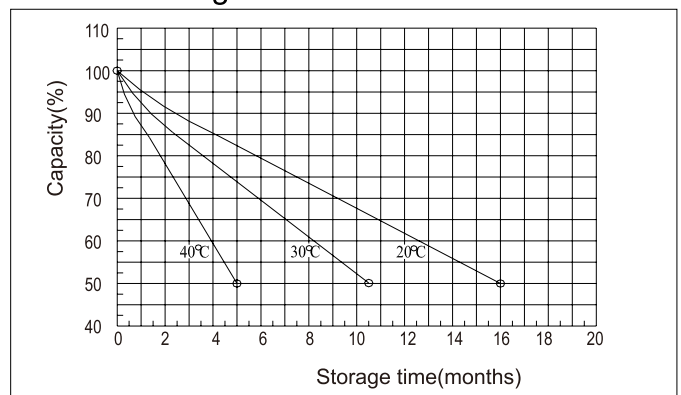
## ● Charging Characteristics(25°C)



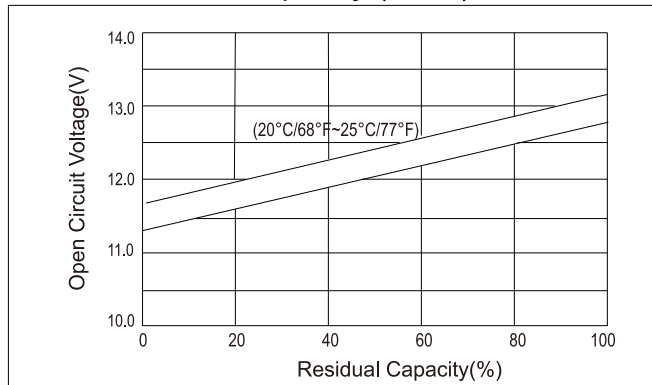
## ● Effect of Temperature on Capacity



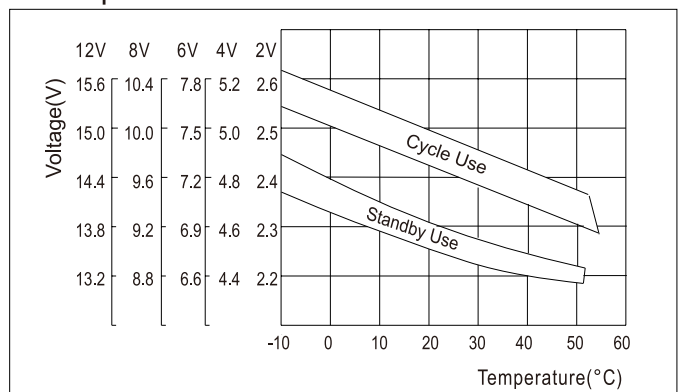
## ● Self-discharge Characteristics



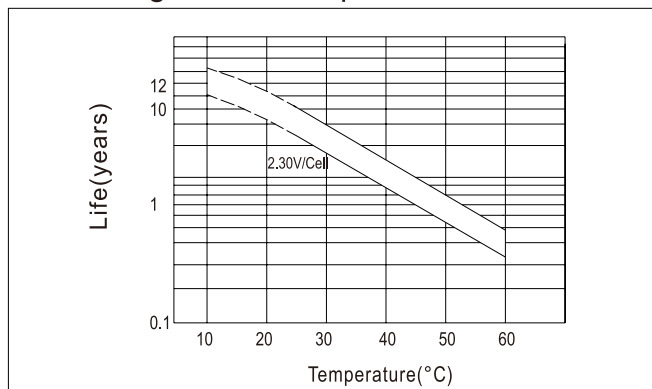
## ● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## ● The Relationship for Charging Voltage and Temperature



## ● Floating Life on Temperature



## ● Cycle Life on D.O.D (25°C)

