



● Specifications

Nominal Voltage		12V
Rated Capacity (10 hour rate)		180Ah
Dimensions	Total Height	222±2mm(8.74 inches)
	Height	218±2mm(8.58 inches)
	Length	522±2mm(20.6 inches)
	Width	238±2mm(9.37 inches)
Weight Approx		54.5kg(113.14lbs)±4%

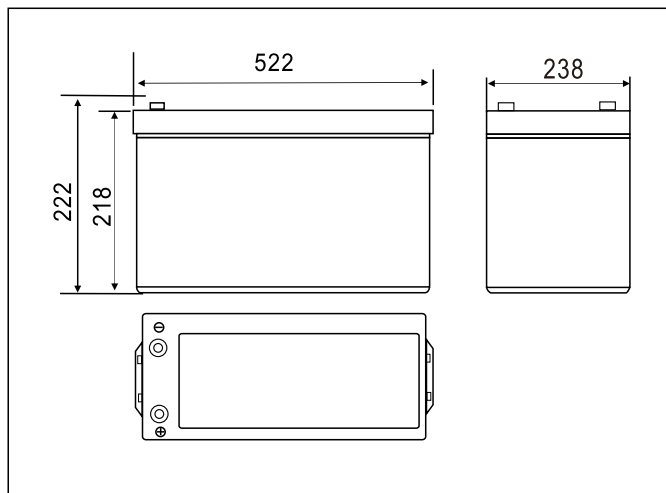
● Characteristics

Capacity 25°C(77°F)	10 hour rate(18A)	180 AH
	5 hour rate(32A)	160 AH
	1hour rate(112A)	112AH
Internal Resistance	Full charged Battery at 25°C(77°F)	3.3mΩ
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 45 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

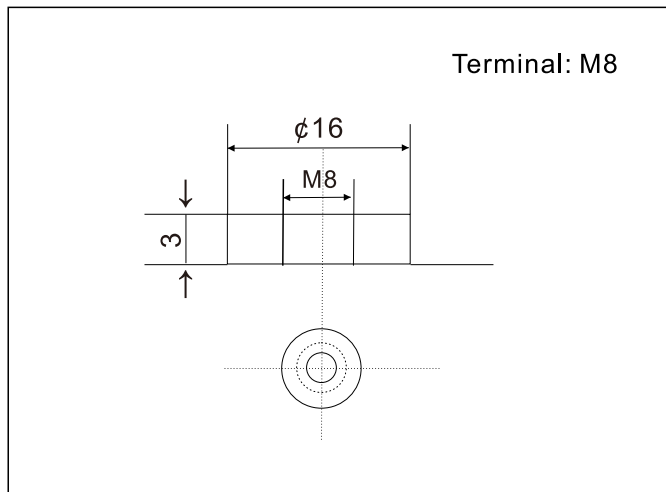
● Applications

- 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)



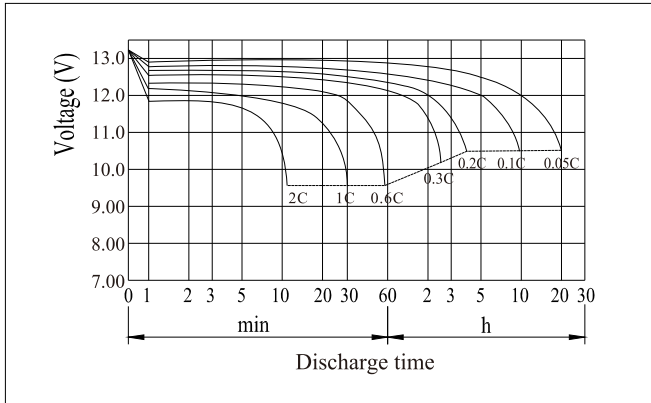
● Terminal Type (mm)



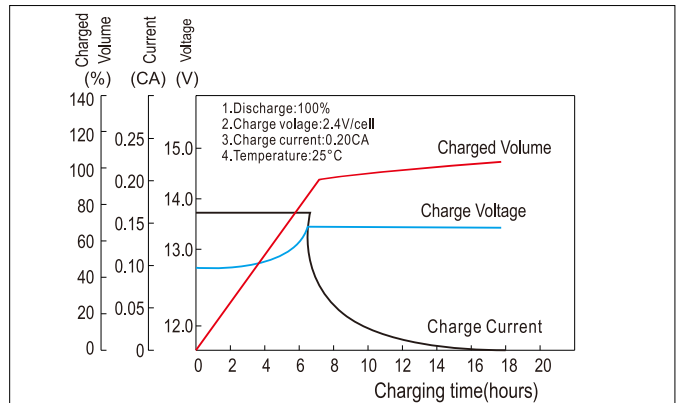
Constant Current(AMP) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time		15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	A	244	168	105	61.2	43.2	34.0	28.4	24.2	19.0	16.8	9.20	—	—
	w	2712	1913	1207	713	510	402	338	288	226	203	111	—	—
9.90V	A	238	164	103	60.8	42.8	33.7	28.3	24.1	18.8	16.8	9.18	—	—
	w	2647	1874	1189	708	506	400	336	287	224	202	111	—	—
10.20V	A	228	160	101	60.4	42.6	33.5	28.1	23.9	18.7	16.7	9.16	4.02	—
	w	2548	1817	1158	702	504	396	334	284	223	202	110	48.1	—
10.50V	A	221	156	98.5	59.4	42.4	33.4	28.0	23.8	18.6	16.7	9.00	3.98	1.80
	w	2462	1772	1135	691	500	394	331	282	221	200	108	47.8	19.9
10.80V	A	209	150	95.5	57.8	41.0	32.3	27.1	23.0	18.0	16.6	9.04	3.98	1.80
	w	2333	1708	1100	674	485	382	322	274	215	199	109	47.8	19.8

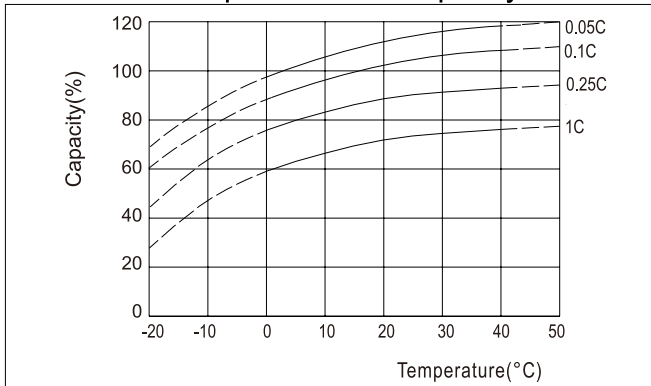
● Discharge Characteristics(25°C)



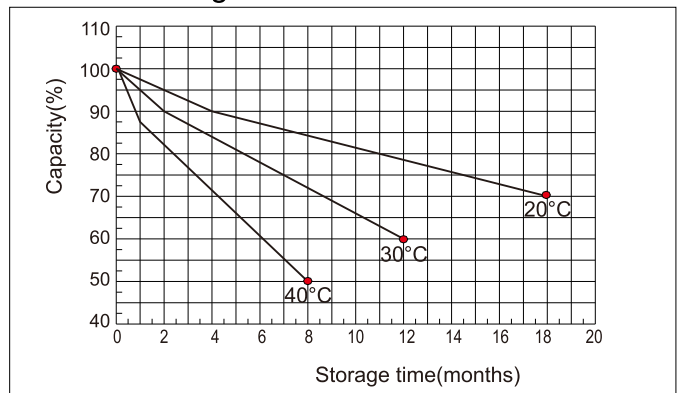
● Charging Characteristics(25°C)



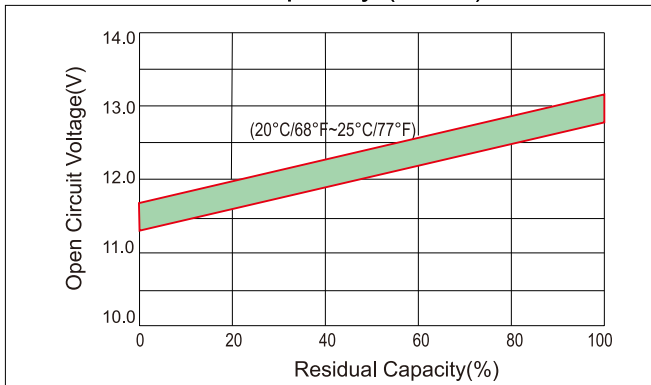
● Effect of Temperature on Capacity



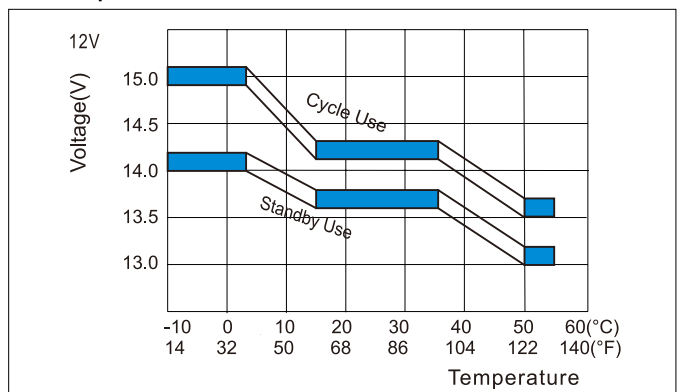
● Self-discharge Characteristics



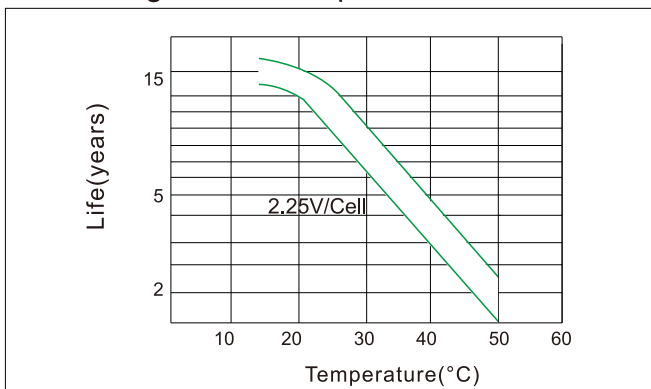
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

