



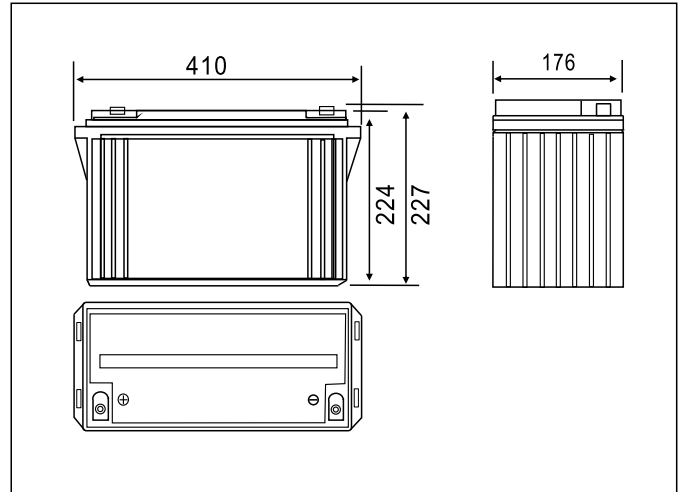
● Applications

- 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

● Specifications

Nominal Voltage		12V
Rated Capacity (10 hour rate)		110Ah
Dimensions	Total Height	227±2mm(8.94 inches)
	Height	224±2mm(8.82 inches)
	Length	410±2mm(15.89 inches)
	Width	176±2mm(6.91 inches)
Weight Approx		35kg(77.21 lbs)±4%

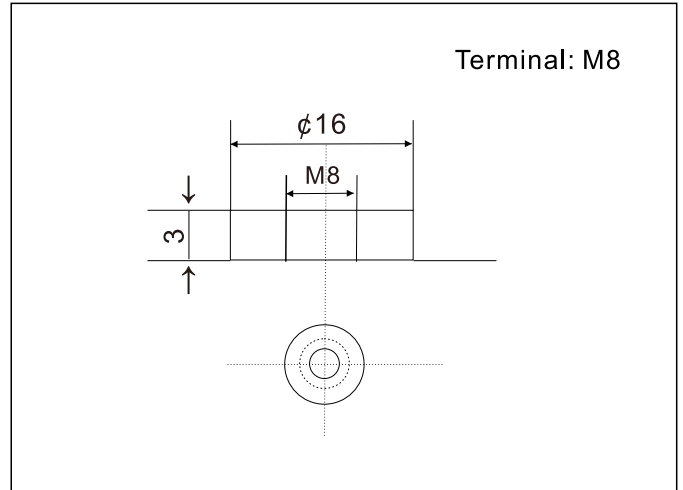
● Outer Dimensions (mm)



● Characteristics

Capacity 25°C(77°F)	10 hour rate(12A) 5 hour rate(21.4A) 1hour rate(74.4A)	120 AH 107 AH 74.4AH
Internal Resistance	Full charged Battery at 25°C(77°F)	4m Ω
Capacity affected by Temperature (10hour rate)	40°C(104°F) 25°C(77°F) 0°C(32°F) -15°C(5°F)	102% 100% 85% 65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage Capacity after 6 month storage Capacity after 12 month storage	91% 82% 64%
Charge (constant voltage)	Cycle	Initial Charging Current Less than 30A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

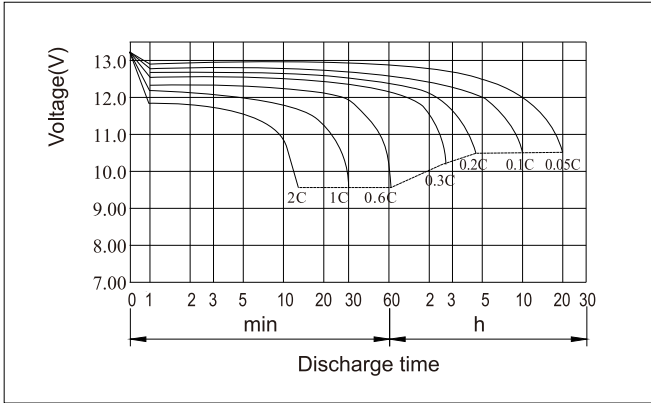
● Terminal Type (mm)



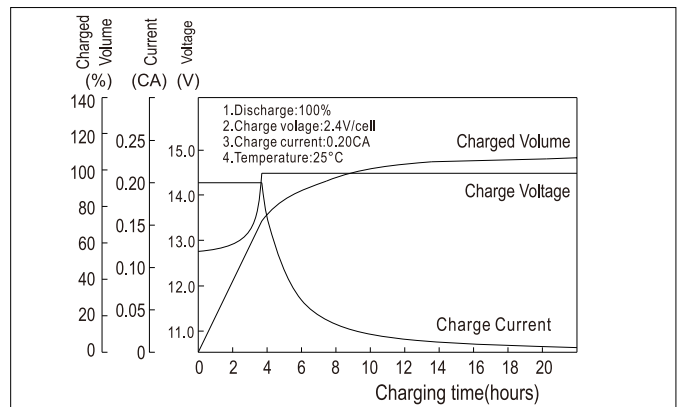
Constant Current(AMP) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	A	198	120	74.4	43.8	30.6	25.1	21.4	18.7	14.7	6.41
	w	2174	1346	848	508	360	295	253	221	174	77.0
9.90V	A	193	118	73.3	43.6	30.4	24.9	21.3	18.6	14.6	6.40
	w	2122	1319	835	505	358	293	252	220	173	76.8
10.20V	A	186	114	71.4	43.2	30.2	24.8	21.1	18.5	14.5	6.38
	w	2044	1279	814	500	355	291	250	219	172	76.6
10.50V	A	180	111	70.0	42.6	30.0	24.6	21.0	18.4	14.4	6.34
	w	1974	1248	798	493	353	289	248	217	171	76.1
10.80V	A	170	107	67.9	41.5	29.1	23.9	20.4	17.8	14.0	6.30
	w	1870	1202	774	480	342	281	241	211	166	75.6

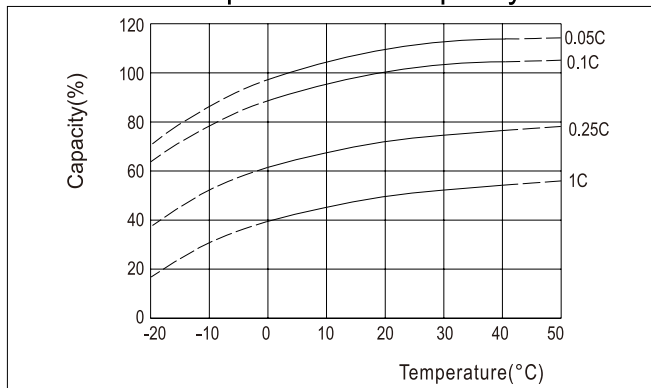
● Discharge Characteristics(25°C)



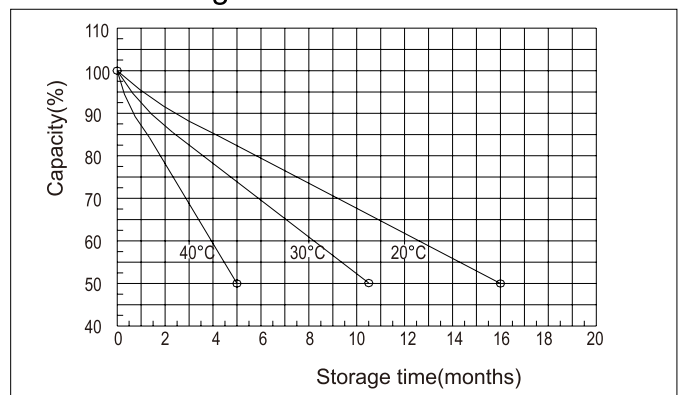
● Charging Characteristics(25°C)



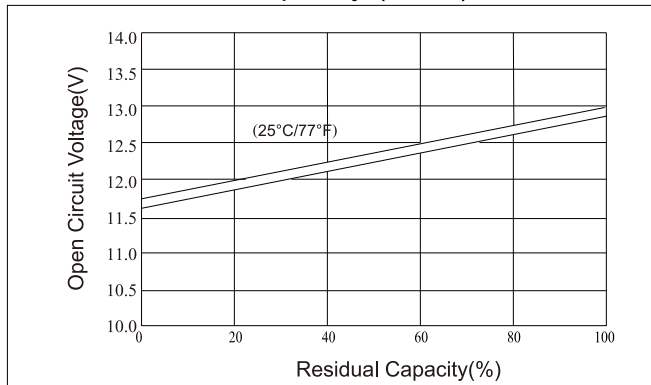
● Effect of Temperature on Capacity



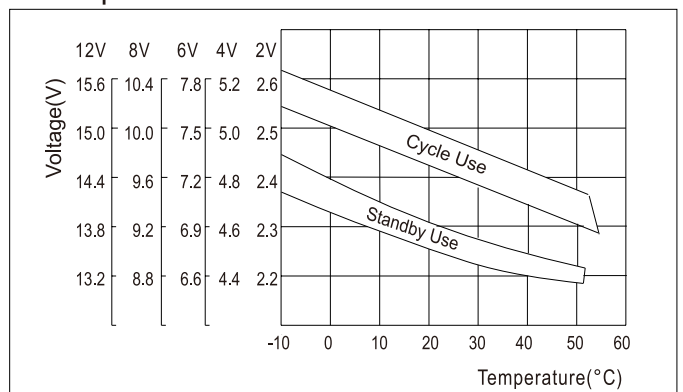
● Self-discharge Characteristics



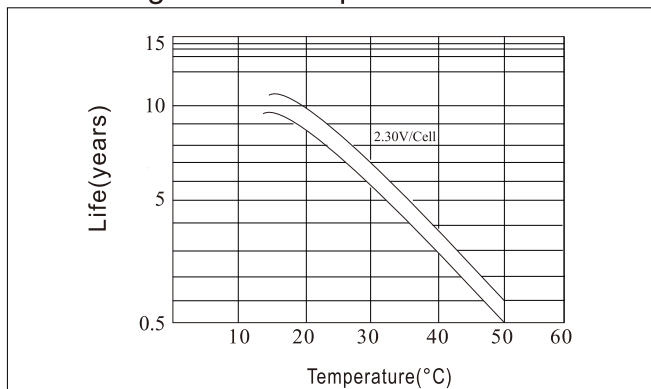
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

