



### Specifications

Nominal Voltage		12V
Rated Capacity (10 hour rate)		80Ah
Dimensions	Total Height	214±2mm(8.43 inches)
	Height	208±2mm(8.19 inches)
	Length	259±2mm(10.2 inches)
	Width	169±2mm(6.65 inches)
Weight Approx		22.5kg(49.62 lbs)±4%

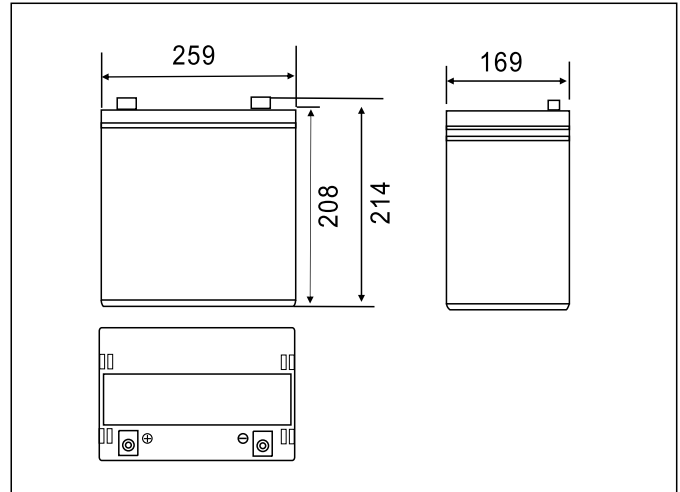
### Characteristics

Capacity 25°C(77°F)	10 hour rate(8.0A) 5 hour rate(14.3A) 1hour rate(49.6A)	80.0 AH 71.5 AH 49.6AH
Internal Resistance	Full charged Battery at 25°C(77°F)	5.5m 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 20 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

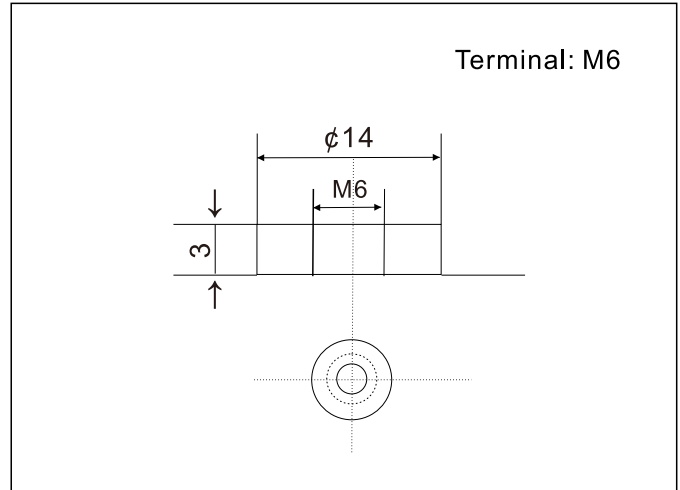
### Applications

- 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)



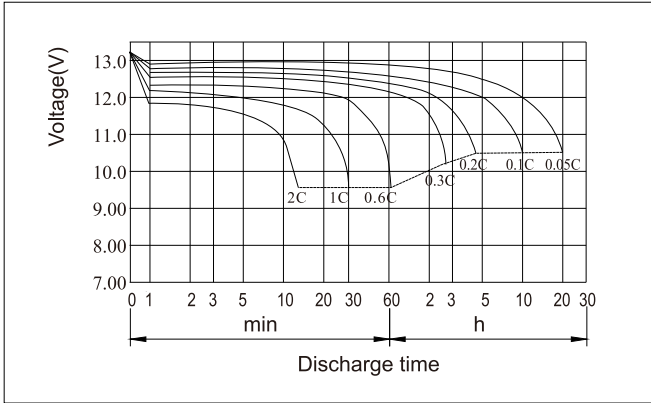
### Terminal Type (mm)



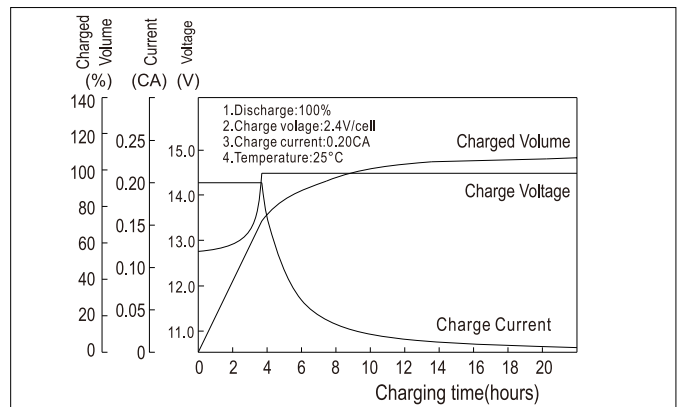
### Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	179	136	84.8	52.5	29.3	20.4	16.8	14.6	9.80	4.26
	w	1928	1497	952	593	341	240	198	173	118	51.1
9.90V	A	173	134	83.4	51.7	29.2	20.3	16.7	14.5	9.75	4.26
	w	1860	1465	938	587	339	238	197	171	117	51.1
10.20V	A	170	131	81.4	50.4	28.9	20.1	16.6	14.4	9.69	4.23
	w	1831	1437	914	569	336	237	195	170	116	50.8
10.50V	A	165	130	79.2	49.7	28.6	20.0	16.5	14.3	9.62	4.22
	w	1765	1416	892	552	331	235	194	169	115	50.7
10.80V	A	159	124	77.4	47.9	27.8	19.4	15.9	14.1	9.31	4.20
	w	1722	1365	868	541	322	228	188	167	112	50.4

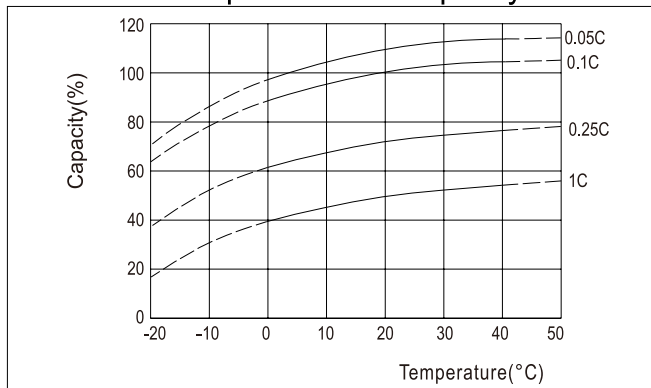
● Discharge Characteristics(25°C)



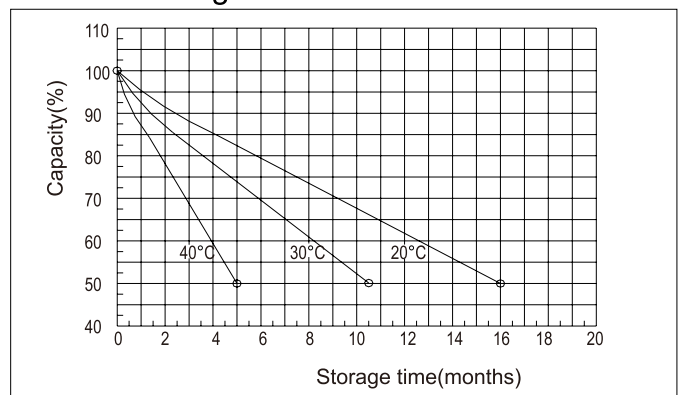
● Charging Characteristics(25°C)



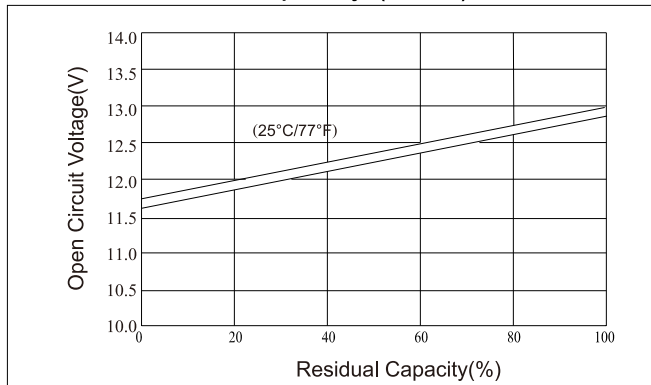
● Effect of Temperature on Capacity



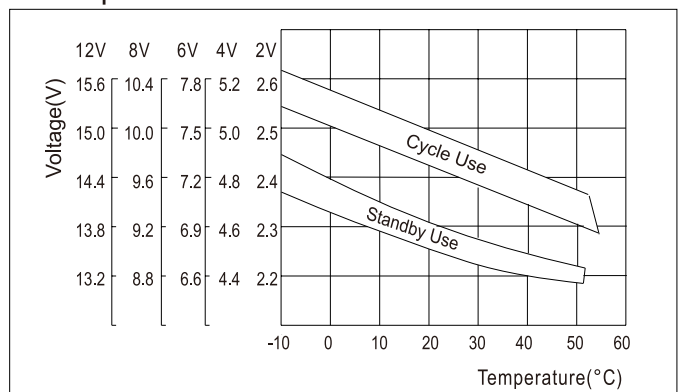
● Self-discharge Characteristics



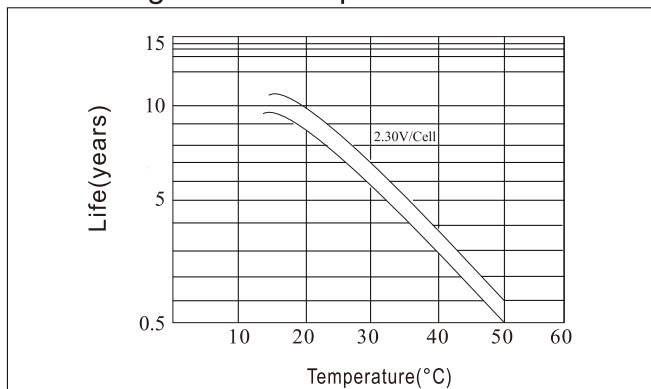
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

