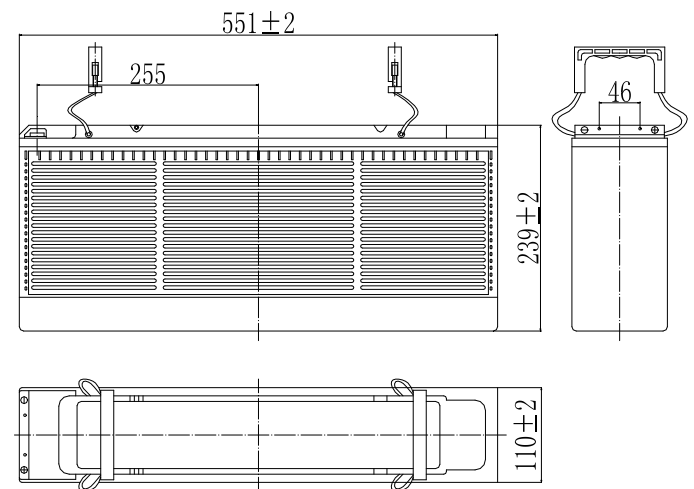
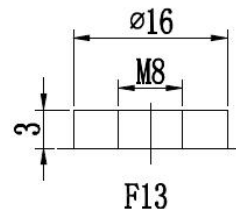


**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	120 Ah
	5HR(10.5V)	105Ah
	1HR(9.60V)	72Ah
Dimension	Length	551 ± 3mm (21.69inch)
	Width	110 ± 2mm (4.33inch)
	Height	239 ± 2mm (9.41inch)
	Total Height	239 ± 2mm (9.41inch)
Approx. Weight		36kg (79.4lbs) ± 4%
Terminal type		F13
Internal resistance (Fully charged, 25°C)		Approx. 5m Ω
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 15.00V Temperature compensation: -30mV/°C
Maximum charging current		36A
Maximum discharge current		960A(5 sec.)
Designed floating life(20°C)		12 years

**Dimensions**

**Terminal**

**Constant Current Discharge Characteristics (A, 25°C)**

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	254	196	117	71.9	43.8	31.2	25.2	21.5	14.8	12.2	6.47
9.90V	246	191	115	70.9	43.6	31.0	25.1	21.4	14.7	12.2	6.46
10.2V	236	184	111	69.1	43.2	30.8	24.9	21.3	14.6	12.2	6.44
10.5V	226	178	108	67.6	42.6	30.6	24.7	21.1	14.5	12.1	6.40
10.8V	213	168	104	65.5	41.5	29.7	24.0	20.5	14.1	12.0	6.36

**Constant Power Discharge Characteristics (Watt, 25°C)**

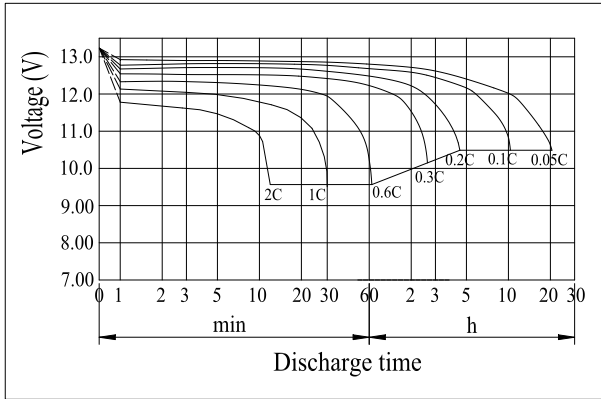
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2741	2147	1313	820	508	367	297	255	176	146	77.7
9.90V	2658	2096	1286	808	505	365	295	253	175	146	77.5
10.2V	2549	2018	1247	787	500	362	293	251	174	145	77.3
10.5V	2439	1950	1217	771	493	360	291	250	172	144	76.9
10.8V	2302	1847	1172	747	480	349	282	242	167	143	76.3

Note: The above characteristics data can be obtained within three charge/discharge cycles.

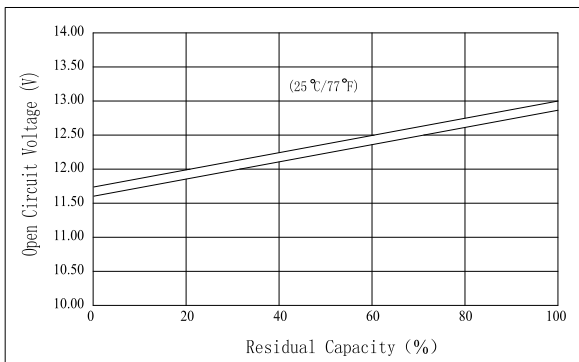
**Construction**

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

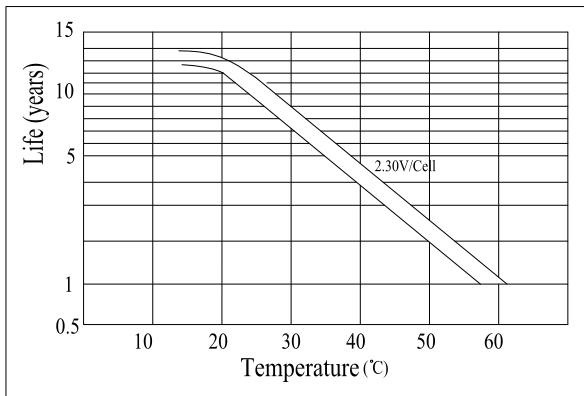
**Discharge Characteristics(25°C)**



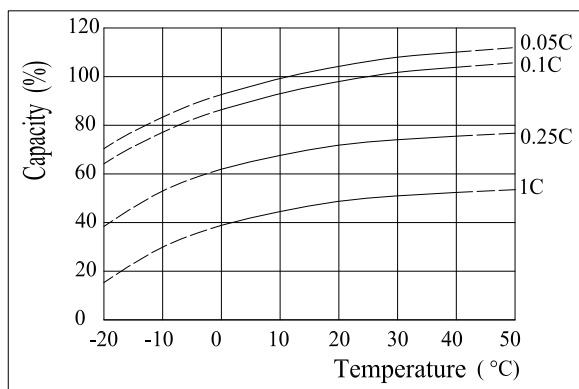
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



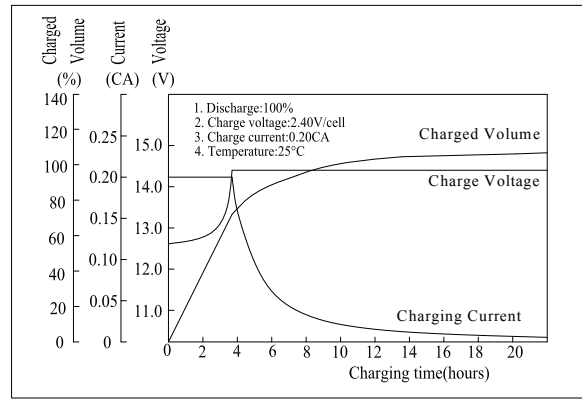
**Floating Life on Temperature**



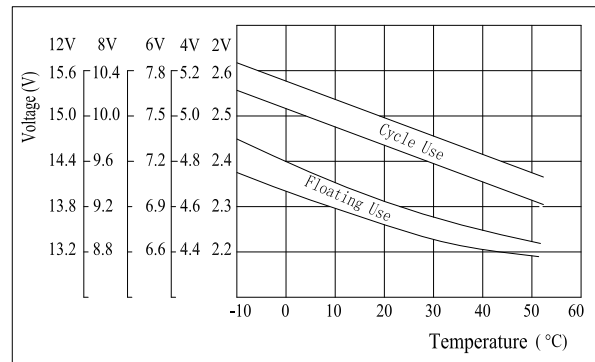
**Effect of Temperature on Capacity**



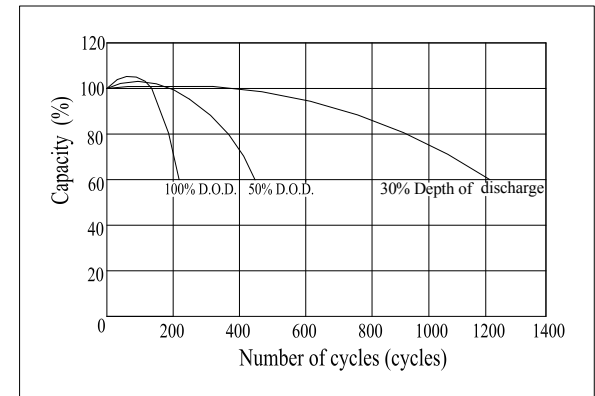
**Charging Characteristics(25°C)**



**The Relationship for Charging Voltage and Temperature**



**Cycle Life on D.O.D(25°C)**



**Self-discharge Characteristics**

