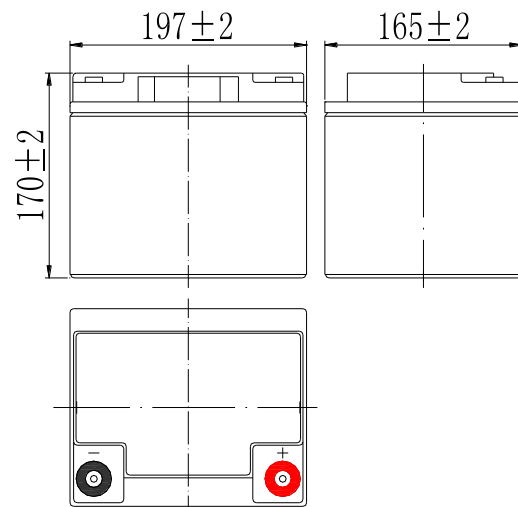
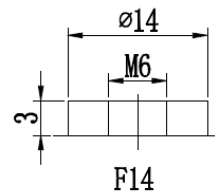


**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	40 Ah
	5HR(10.5V)	34Ah
	1HR(9.60V)	24Ah
Dimension	Length	197±2mm (7.76inch)
	Width	165±2mm (6.50inch)
	Height	170±2mm (6.69inch)
	Total Height	170±2mm (6.69inch)
Approx. Weight		12.5kg (27.6lbs)±4%
Terminal type		F14
Internal resistance (Fully charged, 25°C)		Approx. 9.5mΩ
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)		14.40 to 14.70V Temperature compensation: -30mV/°C
Maximum charging current		12A
Maximum discharge current		400A(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	76.0	63.2	38.5	24.0	14.6	10.3	8.16	6.94	4.90	4.07	2.16
9.90V	73.7	61.7	37.7	23.6	14.5	10.3	8.11	6.90	4.87	4.06	2.15
10.2V	70.7	59.4	36.6	23.0	14.4	10.2	8.06	6.85	4.83	4.05	2.15
10.5V	67.6	57.4	35.7	22.6	14.2	10.1	8.00	6.80	4.80	4.03	2.13
10.8V	63.8	54.4	34.4	21.9	13.8	9.82	7.76	6.60	4.66	4.00	2.12

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

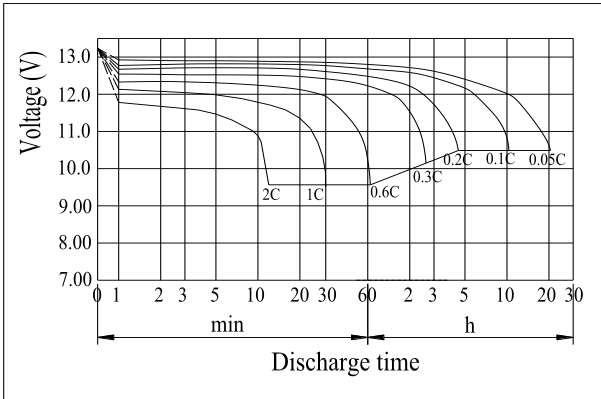
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	821	694	432	274	169	121	96.0	82.0	58.2	48.6	25.9
9.90V	796	677	423	269	168	121	95.4	81.5	57.8	48.5	25.8
10.2V	763	652	410	263	167	120	94.7	80.9	57.4	48.4	25.8
10.5V	731	630	400	257	164	119	94.1	80.4	57.0	48.1	25.6
10.8V	689	597	386	250	160	115	91.3	78.0	55.3	47.8	25.4

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

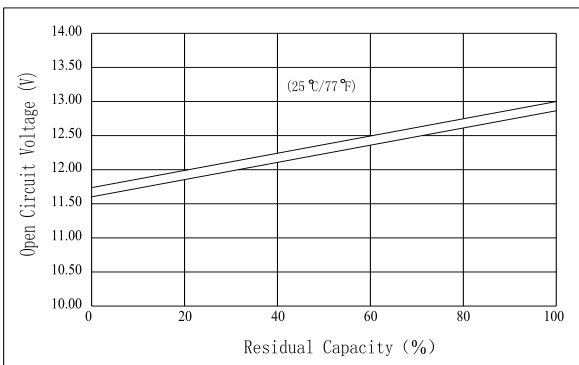
**Construction**

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

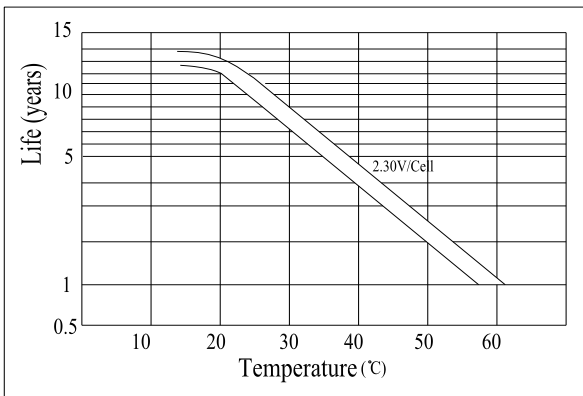
**Discharge Characteristics(25°C)**



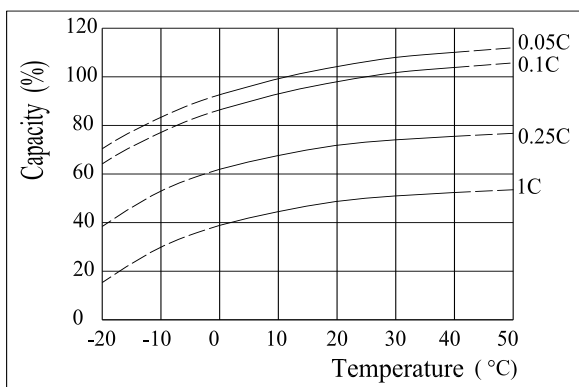
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



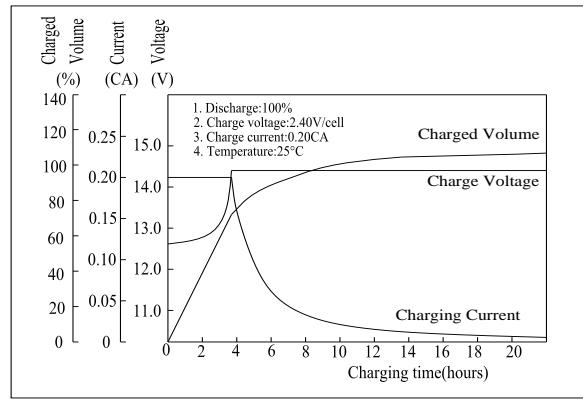
**Floating Life on Temperature**



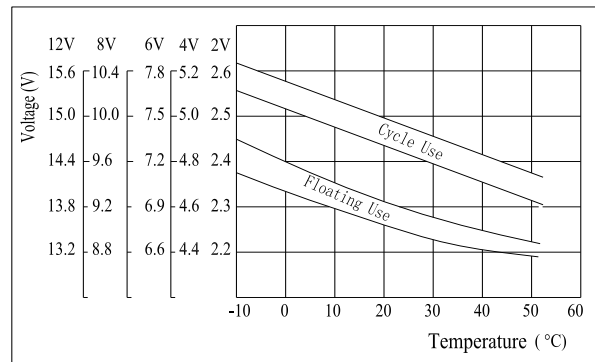
**Effect of Temperature on Capacity**



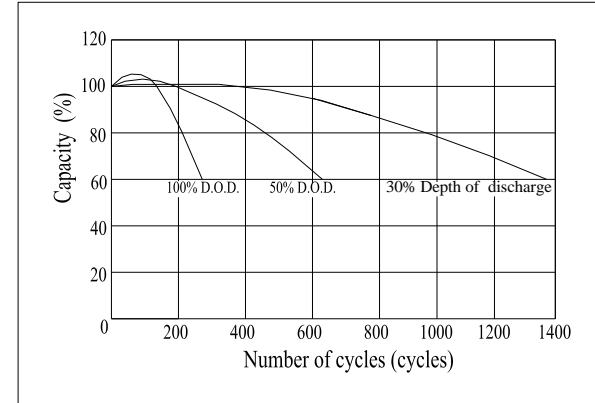
**Charging Characteristics(25°C)**



**The Relationship for Charging Voltage and Temperature**



**Cycle Life on D.O.D.(25°C)**



**Self-discharge Characteristics**

