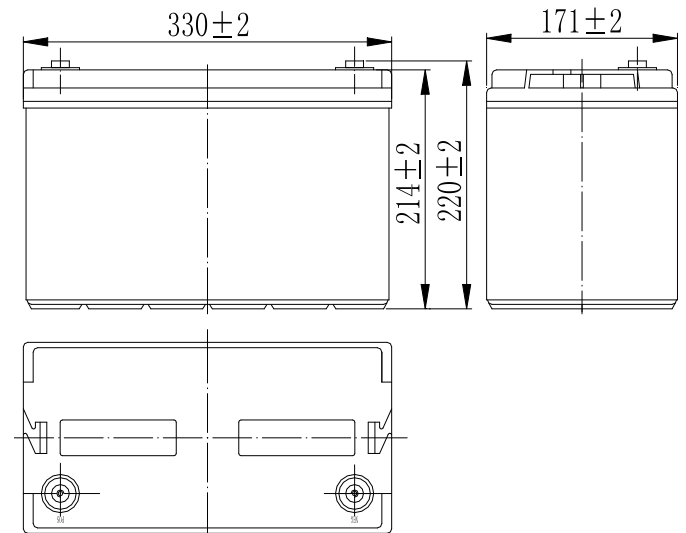
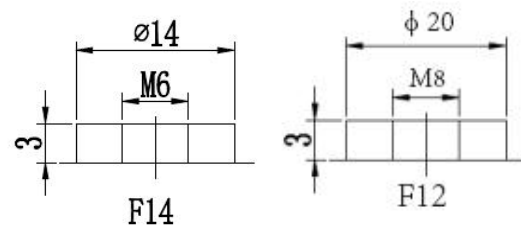


**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	100 Ah
	5HR(10.5V)	85Ah
	1HR(9.60V)	60Ah
Dimension	Length	330±2mm (12.99inch)
	Width	171±2mm (6.73inch)
	Height	214±2mm (8.43inch)
	Total Height	220±2mm (8.66inch)
Approx. Weight		29.5kg (65.0lbs)±4%
Terminal type		F12/F14
Internal resistance (Fully charged, 25°C)		Approx. 4.5mΩ
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)		14.60 to 14.80V Temperature compensation: -30mV/°C
Maximum charging current		30A
Maximum discharge current		800A(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	190	158	96.2	60.0	36.5	25.8	20.4	17.3	12.2	10.2	5.40
9.90V	184	154	94.3	59.1	36.3	25.7	20.3	17.2	12.2	10.2	5.38
10.2V	177	149	91.4	57.6	36.0	25.5	20.1	17.1	12.1	10.1	5.37
10.5V	169	143	89.2	56.5	35.5	25.3	20.0	17.0	12.0	10.1	5.34
10.8V	160	136	85.9	54.7	34.6	24.5	19.4	16.5	11.6	10.0	5.30

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

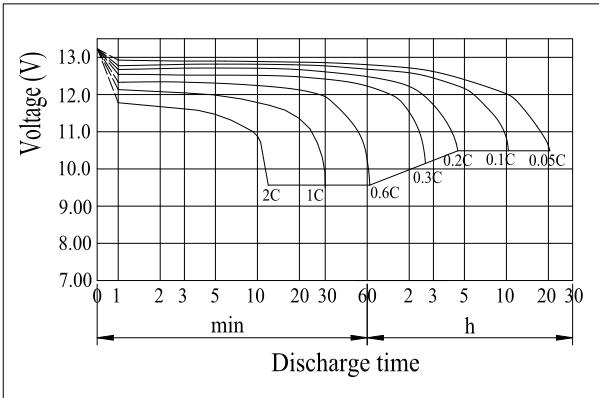
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2052	1735	1079	684	423	303	240	205	145	122	64.7
9.90V	1990	1693	1058	674	421	302	238	204	145	121	64.6
10.2V	1908	1631	1025	657	417	300	237	202	144	121	64.4
10.5V	1826	1575	1001	644	411	298	235	201	143	120	64.0
10.8V	1724	1492	964	624	400	289	228	195	138	119	63.6

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

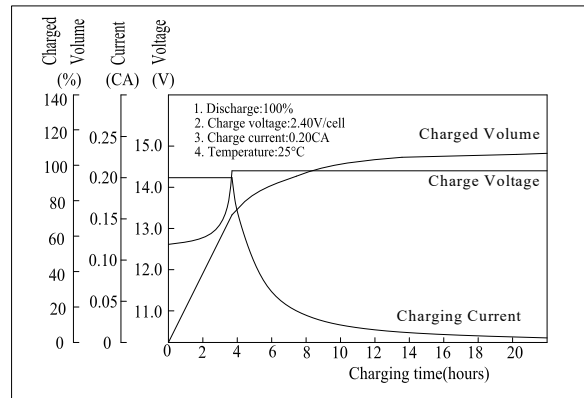
**Construction**

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

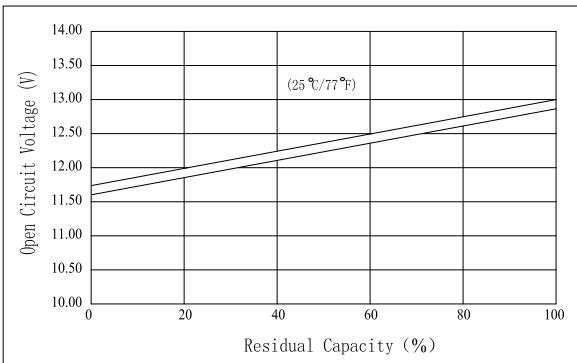
**Discharge Characteristics(25°C)**



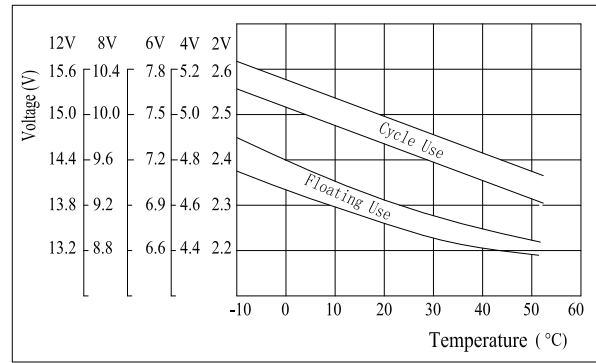
**Charging Characteristics(25°C)**



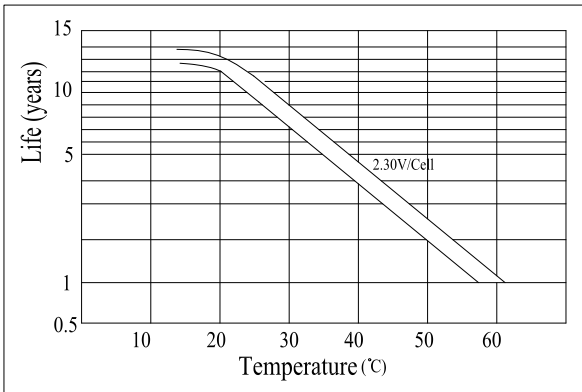
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



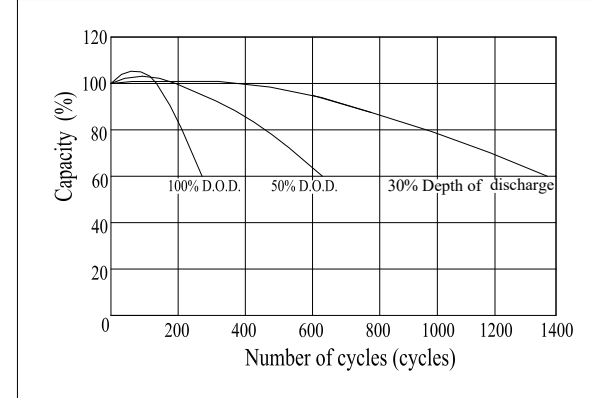
**The Relationship for Charging Voltage and Temperature**



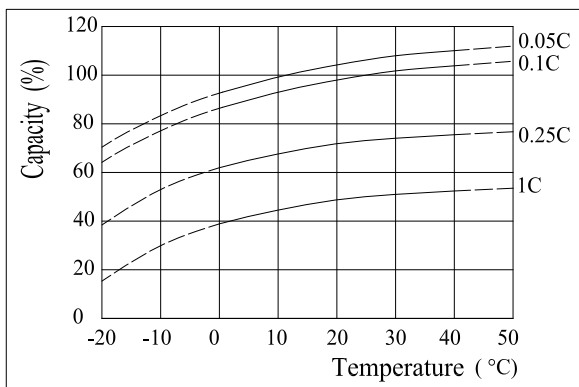
**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**



**Effect of Temperature on Capacity**



**Self-discharge Characteristics**

