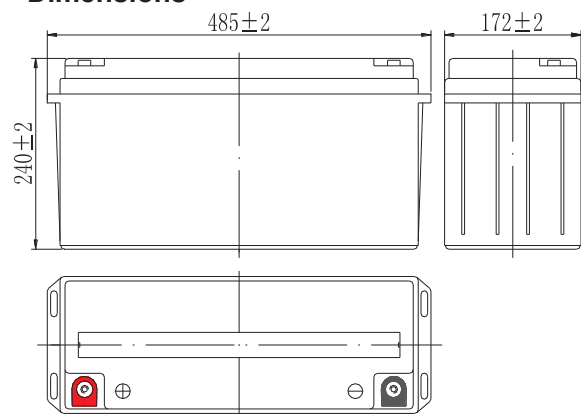


## Specifications

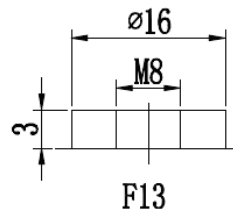
Nominal Voltage		12 V
Capacity (25°C)	10HR (10.8V)	150 Ah
	5HR (10.5V)	132Ah
	1HR (9.60V)	92Ah
Dimension	Length	485±2mm (19.09inch)
	Width	172±2mm (6.77inch)
	Height	240±2mm (9.45inch)
	Total Height	240±2mm (9.45inch)
Approx. Weight		44 kg ±4 %
Terminal type		M8
Internal resistance (Fully charged, 25°C)		Approx. 2.5mΩ
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)		14.50 to 15.00V Temperature compensation: -30mV/°C
Maximum charging current		45A
Maximum discharge current		1200A (5 sec.)
Designed floating life (20°C)		10-12 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	327	252	151	92.7	54.8	39.0	31.5	26.9	18.5	15.3	8.09
9.90V	317	246	148	91.3	54.5	38.8	31.3	26.8	18.4	15.2	8.08
10.2V	304	237	143	89.0	54.0	38.5	31.1	26.6	18.3	15.2	8.05
10.5V	291	229	140	87.1	53.2	38.3	30.9	26.4	18.2	15.1	8.01
10.8V	275	217	135	84.4	51.8	37.1	30.0	25.6	17.6	15.0	7.95

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

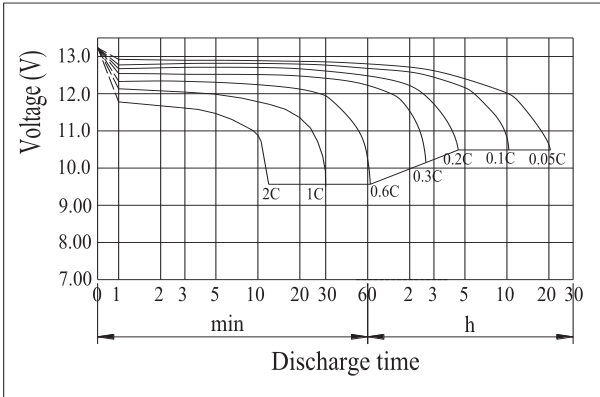
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	3532	2767	1691	1057	635	459	371	318	220	182	97.1
9.90V	3426	2701	1658	1041	631	456	368	316	219	182	96.9
10.2V	3284	2601	1607	1015	625	453	366	314	217	181	96.6
10.5V	3143	2512	1568	993	616	450	363	312	216	180	96.1
10.8V	2967	2380	1510	963	600	436	352	303	209	179	95.4

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

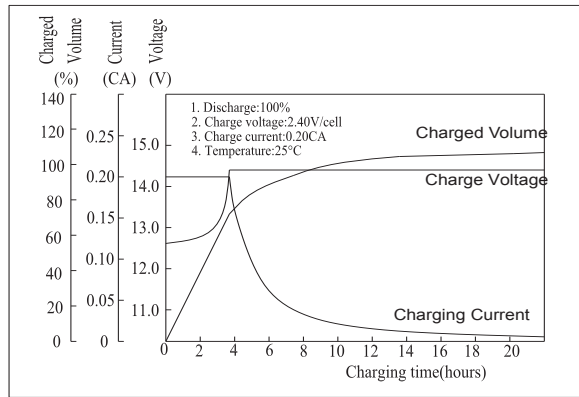
## Construction

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

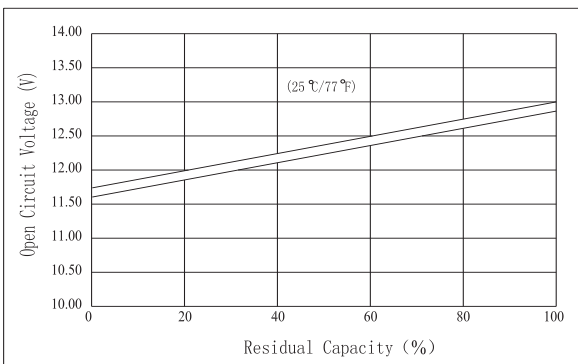
## Discharge Characteristics(25°C)



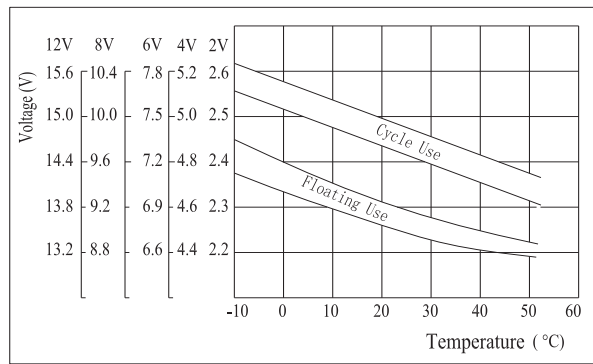
## Charging Characteristics(25°C)



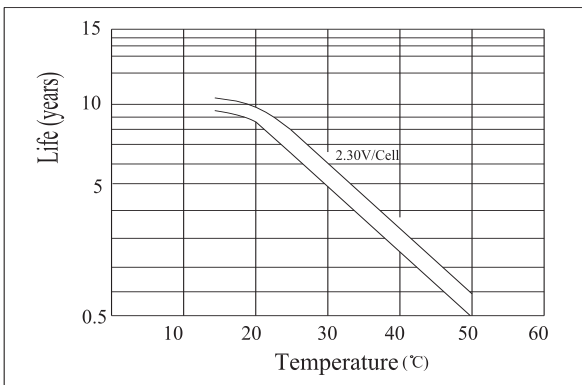
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



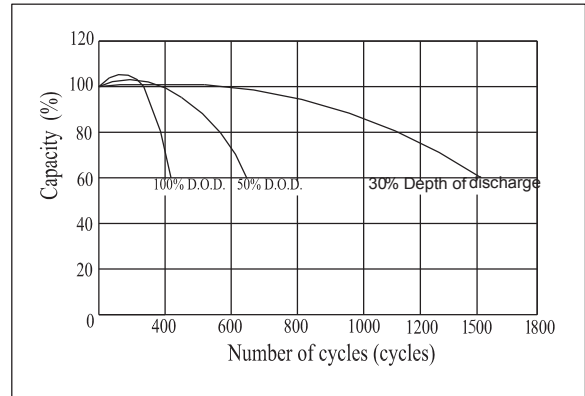
## The Relationship for Charging Voltage and Temperature



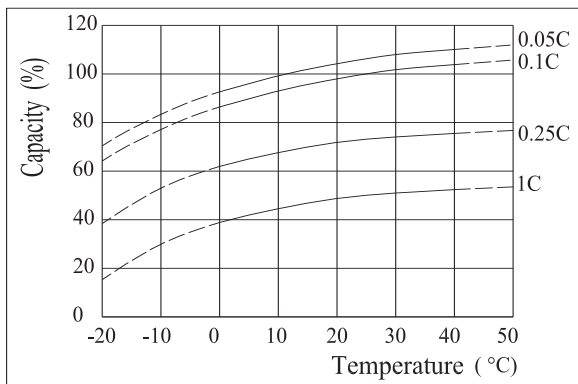
## Floating Life on Temperature



## Cycle Life on D.O.D (25°C)



## Effect of Temperature on Capacity



## Self-discharge Characteristics

