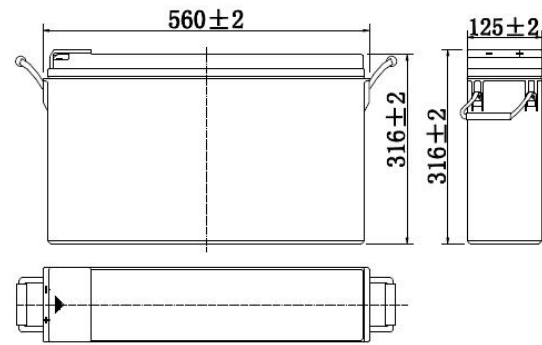
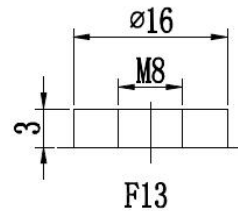


Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	200Ah
	5HR(10.5V)	176Ah
	1HR(9.60V)	120Ah
Dimension	Length	560±2mm (22.05inch)
	Width	125±2mm (4.92inch)
	Height	316±2mm (12.44inch)
	Total Height	316±2mm (12.44inch)
Approx. Weight		57.0kg (125.7lbs)±4%
Terminal type		F13
Internal resistance (Fully charged, 25°C)		Approx. 4.4mΩ
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		60A
Maximum discharge current		1600A(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	422	326	195	120	73.0	52.0	42.0	36.0	24.6	20.4	10.8
9.90V	410	318	191	118	72.6	51.8	41.8	35.6	24.6	20.4	10.8
10.2V	394	306	185	115	72.0	51.4	41.4	35.4	24.4	20.2	10.7
10.5V	376	296	181	113	71.0	51.0	41.2	35.2	24.2	20.2	10.7
10.8V	356	280	174	109	69.2	49.4	40.0	34.2	23.4	20.0	10.6

Constant Power Discharge Characteristics (Watt, 25°C)

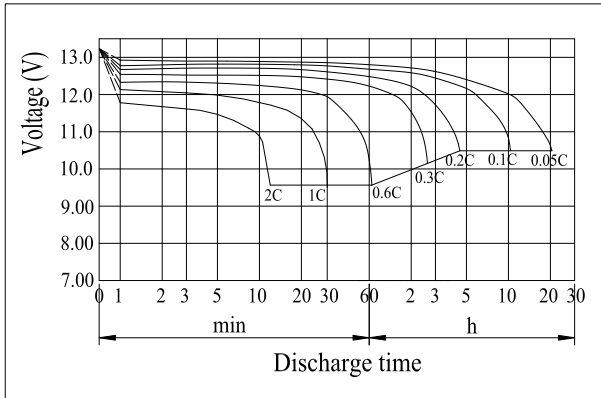
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	4587	3593	2197	1372	850	615	496	426	295	245	130
9.90V	4449	3507	2153	1352	846	611	494	424	293	243	130
10.2V	4266	3378	2087	1318	838	607	490	420	291	243	129
10.5V	4083	3264	2037	1289	825	603	486	418	289	241	129
10.8V	3852	3091	1962	1251	803	584	472	406	279	239	128

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

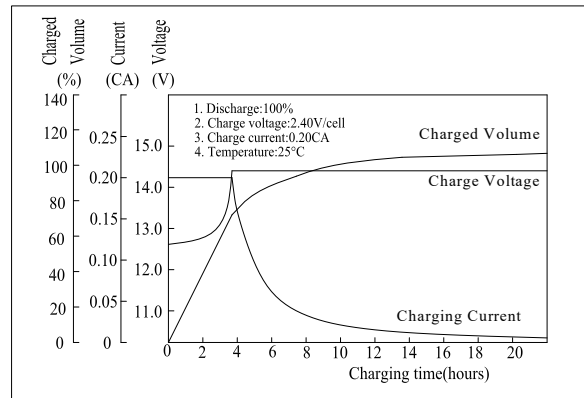
Construction

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

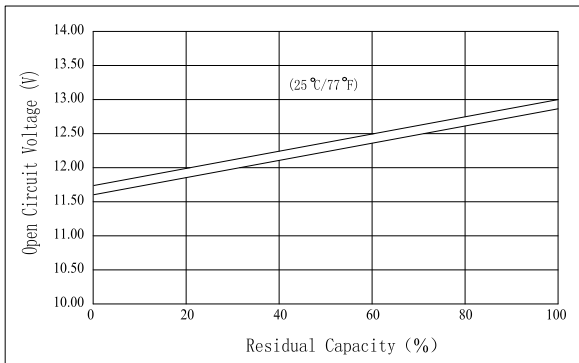
Discharge Characteristics(25°C)



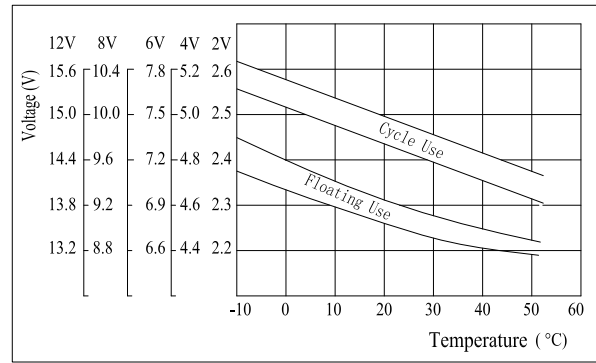
Charging Characteristics(25°C)



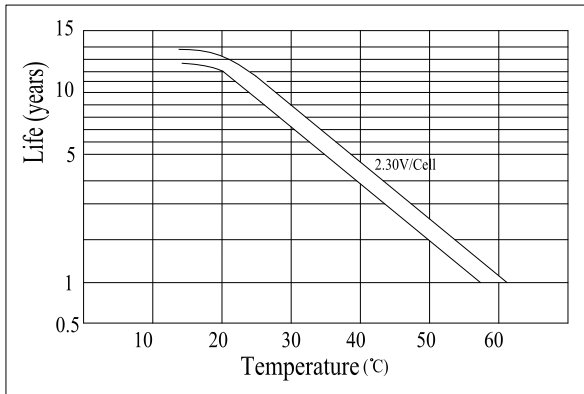
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



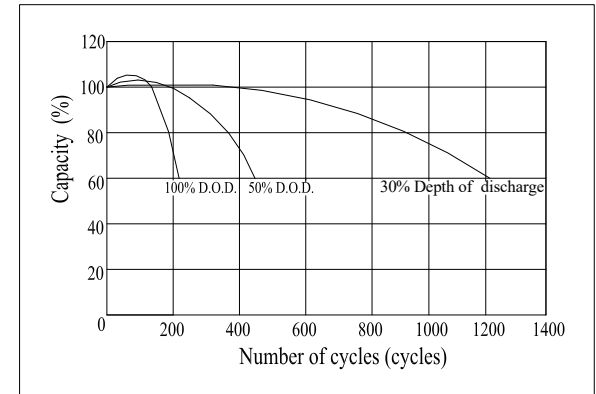
The Relationship for Charging Voltage and Temperature



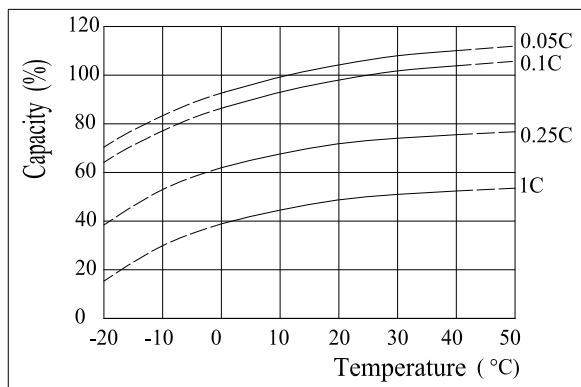
Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

