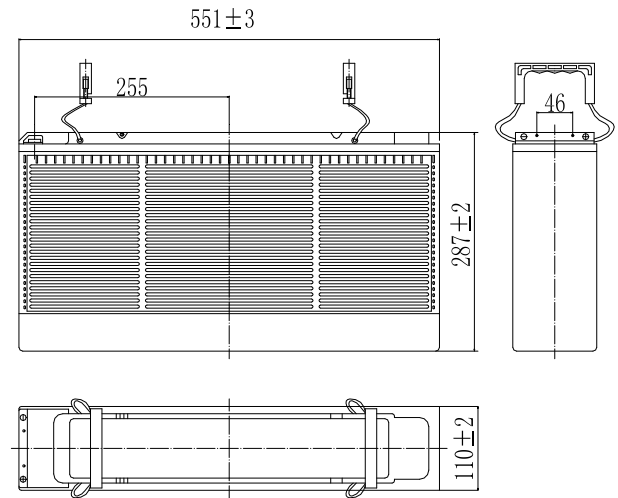
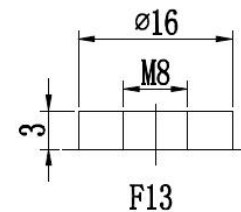


Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	150 Ah
	5HR(10.5V)	132Ah
	1HR(9.60V)	90Ah
Dimension	Length	551 ± 3mm (21.69inch)
	Width	110 ± 2mm (4.33inch)
	Height	287 ± 2mm (11.30inch)
	Total Height	287 ± 2mm (11.30inch)
Approx. Weight		47kg (103.6lbs) ± 4%
Terminal type		F13
Internal resistance (Fully charged, 25°C)		Approx.4.2m 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		45A
Maximum discharge current		1200A(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	317	244	146	89.9	54.8	39.0	31.5	26.9	18.5	15.3	8.09
9.90V	308	239	143	88.6	54.5	38.8	31.3	26.8	18.4	15.2	8.08
10.2V	295	230	139	86.3	54.0	38.5	31.1	26.6	18.3	15.2	8.05
10.5V	282	222	136	84.5	53.2	38.3	30.9	26.4	18.2	15.1	8.01
10.8V	266	210	131	81.9	51.8	37.1	30.0	25.6	17.6	15.0	7.95

Constant Power Discharge Characteristics (Watt, 25°C)

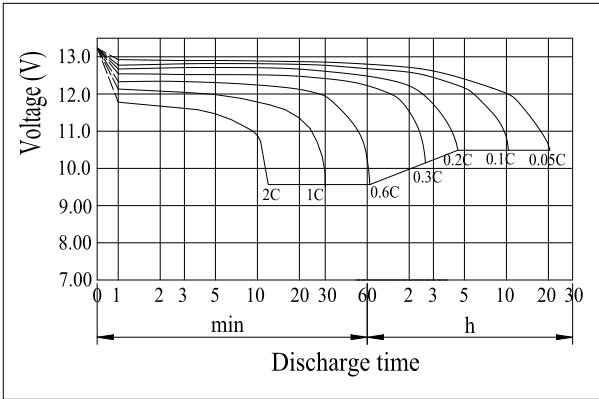
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	3426	2684	1641	1025	635	459	371	318	220	182	97.1
9.90V	3323	2620	1608	1010	631	456	368	316	219	182	96.9
10.2V	3186	2523	1559	984	625	453	366	314	217	181	96.6
10.5V	3049	2437	1521	964	616	450	363	312	216	180	96.1
10.8V	2878	2308	1465	934	600	436	352	303	209	179	95.4

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

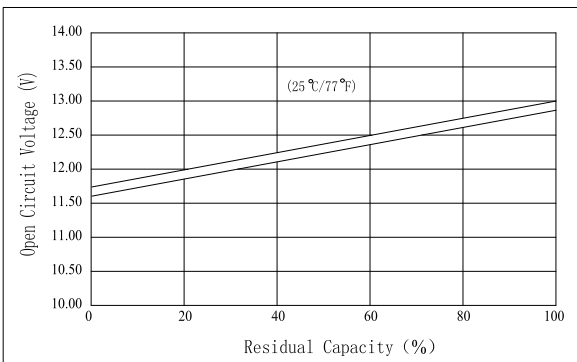
Construction

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

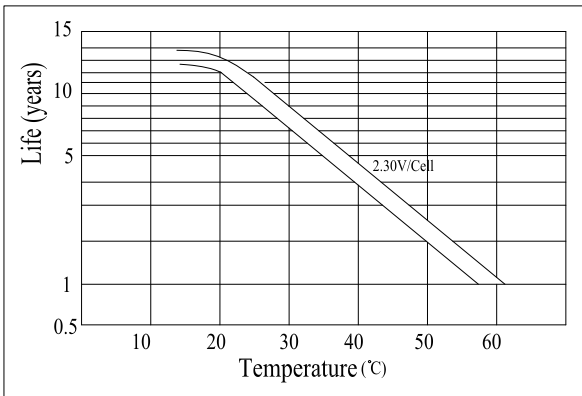
Discharge Characteristics(25°C)



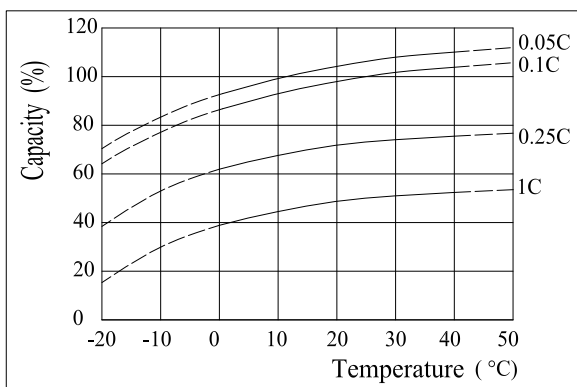
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



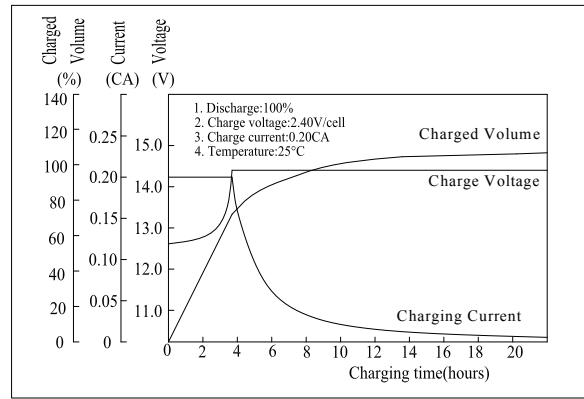
Floating Life on Temperature



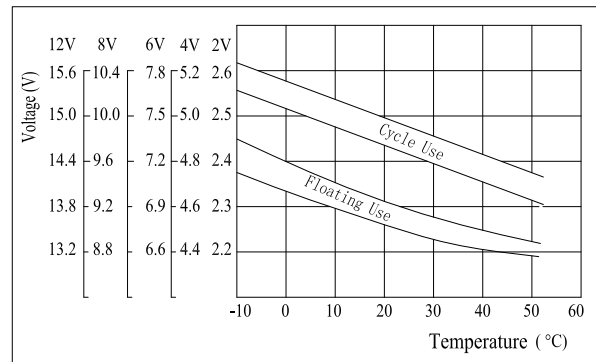
Effect of Temperature on Capacity



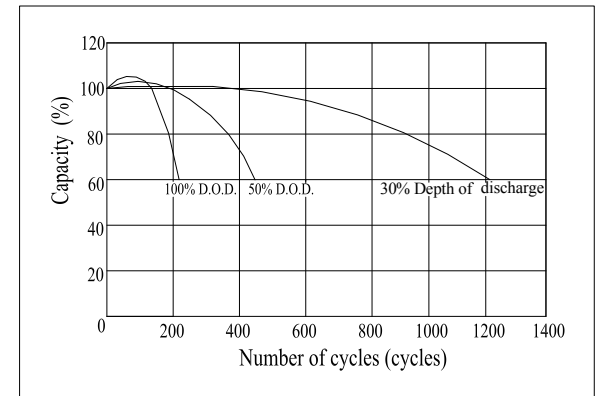
Charging Characteristics(25°C)



The Relationship for Charging Voltage and Temperature



Cycle Life on D.O.D(25°C)



Self-discharge Characteristics

