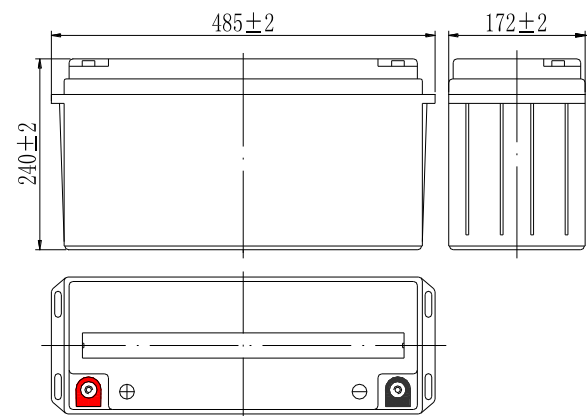


Specifications

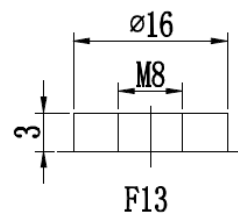
Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	150 Ah
	5HR(10.5V)	127Ah
	1HR(9.60V)	90Ah
Dimension	Length	485±2mm (19.09inch)
	Width	172±2mm (6.77inch)
	Height	240±2mm (9.45inch)
	Total Height	240±2mm (9.45inch)
Approx. Weight		43kg (94.8lbs) ± 4%
Terminal type		F13
Internal resistance (Fully charged, 25°C)		Approx. 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)		14.40 to 14.70V 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	285	237	144	90.0	54.8	38.7	30.6	26.0	18.4	15.3	8.09
9.90V	276	231	141	88.7	54.5	38.5	30.4	25.9	18.3	15.2	8.08
10.2V	265	223	137	86.4	54.0	38.2	30.2	25.7	18.1	15.2	8.05
10.5V	254	215	134	84.7	53.2	38.0	30.0	25.5	18.0	15.1	8.01
10.8V	239	204	129	82.1	51.8	36.8	29.1	24.7	17.5	15.0	7.95

Constant Power Discharge Characteristics (Watt, 25°C)

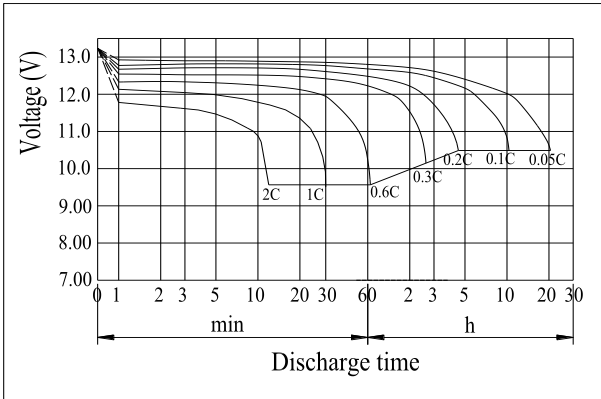
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	3078	2602	1619	1026	635	455	360	307	218	182	97.1
9.90V	2986	2540	1587	1011	631	453	358	306	217	182	96.9
10.2V	2863	2446	1538	985	625	449	355	304	215	181	96.6
10.5V	2739	2363	1501	965	616	446	353	301	214	180	96.1
10.8V	2586	2238	1446	936	600	433	342	292	207	179	95.4

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

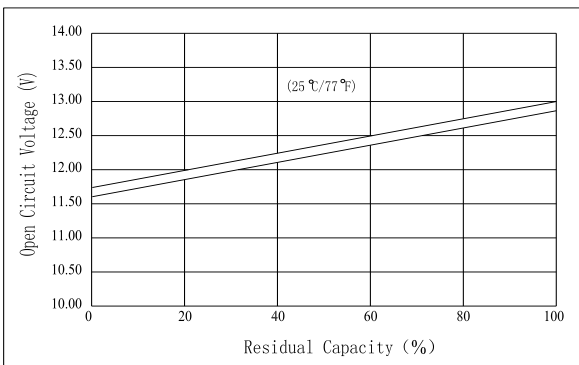
Construction

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

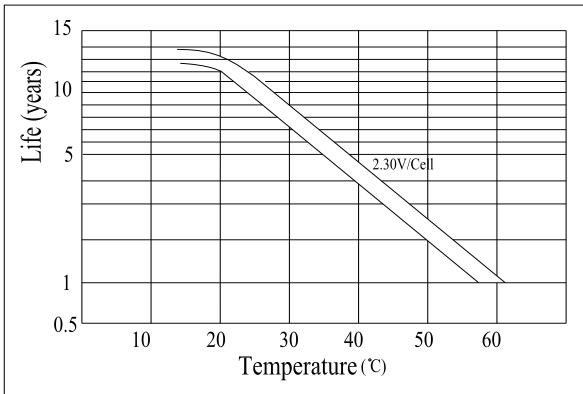
Discharge Characteristics(25°C)



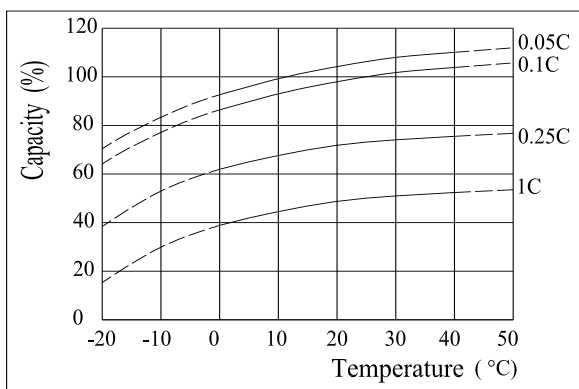
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



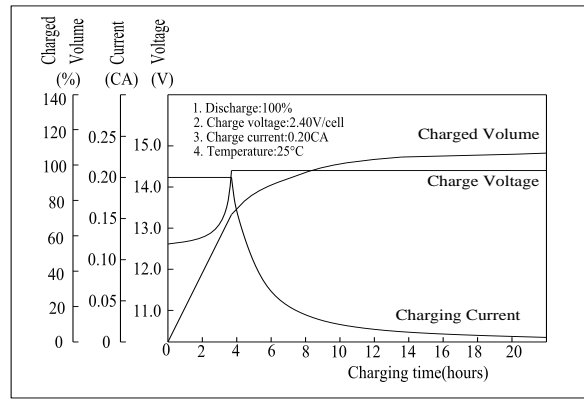
Floating Life on Temperature



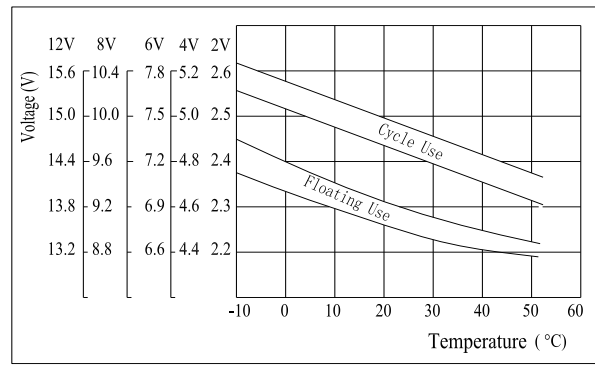
Effect of Temperature on Capacity



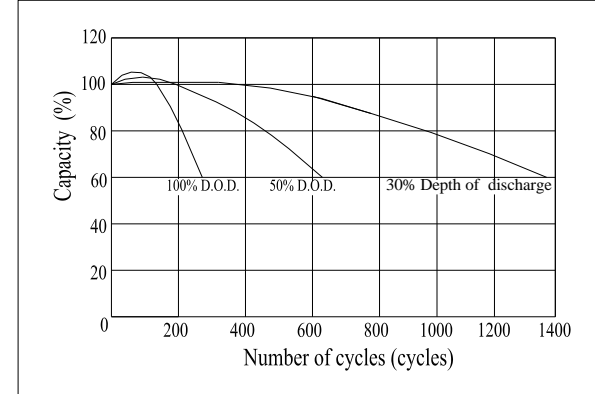
Charging Characteristics(25°C)



The Relationship for Charging Voltage and Temperature



Cycle Life on D.O.D(25°C)



Self-discharge Characteristics

