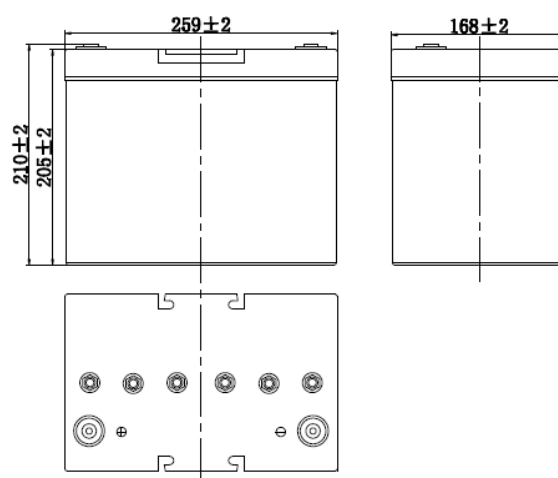
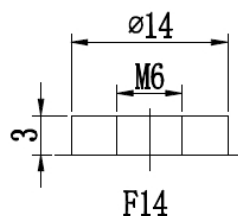


Specifications

Nominal Voltage		12 V
Capacity (25℃)	10HR(10.8V)	70Ah
	2HR(9.60V)	54.3Ah
Dimension	Length	259±2mm (10.20inch)
	Width	168±2mm (6.62inch)
	Height	205±2mm (8.07inch)
	Total Height	210±2mm (8.27inch)
Approx. Weight		23.7kg (52.2lbs)±4%
Terminal type		F14
Internal resistance (Fully charged, 25℃)		Approx. 6mΩ
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25℃±3℃(77°F±5°F)
Operating temperature range	Discharge	-15℃~50℃(5°F~122°F)
	Charge	-10℃~50℃(14°F~122°F)
	Storage	-20℃~50℃(-4°F~122°F)
Float charging voltage(25℃)		13.60 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 15.00V Temperature compensation: -30mV/℃
Maximum charging current		21A
Maximum discharge current		700A(5 sec.)
Designed floating life(20℃)		10 years


Dimensions

Terminal

Constant Current Discharge Characteristics (A, 25℃)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	153	117	69.9	43.0	25.5	18.1	14.7	12.5	8.58	7.08	3.75
9.90V	165	114	68.5	42.4	25.2	18.0	14.5	12.4	8.53	7.06	3.74
10.2V	142	110	66.4	41.3	25.0	17.8	14.4	12.3	8.47	7.04	3.73
10.5V	136	106	64.8	40.4	24.6	17.7	14.3	12.2	8.42	7.02	3.71
10.8V	128	100.4	62.4	39.2	24.1	17.2	13.9	11.9	8.16	7.00	3.69

Constant Power Discharge Characteristics (Watt, 25℃)

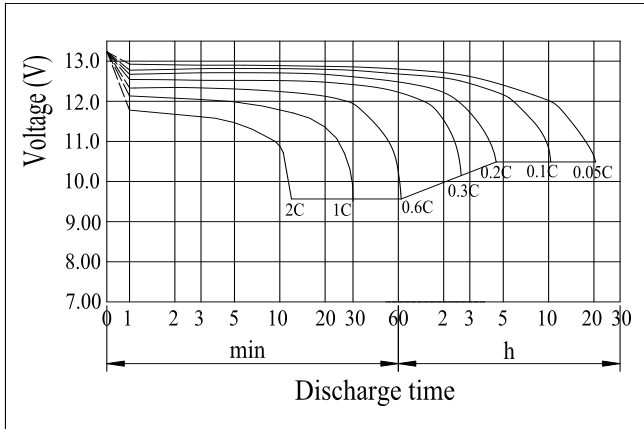
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1637	1283	784	490	294	213	172	148	101.9	84.5	45.0
9.90V	1588	1252	768	483	292	212	171	146	101.3	84.4	44.9
10.2V	1523	1206	745	471	290	210	170	145	100.7	84.1	44.8
10.5V	1457	1165	727	460	286	209	168	144	99.9	83.7	44.5
10.8V	1376	1103	701	446	278	202	164	140	96.9	83.0	44.2

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

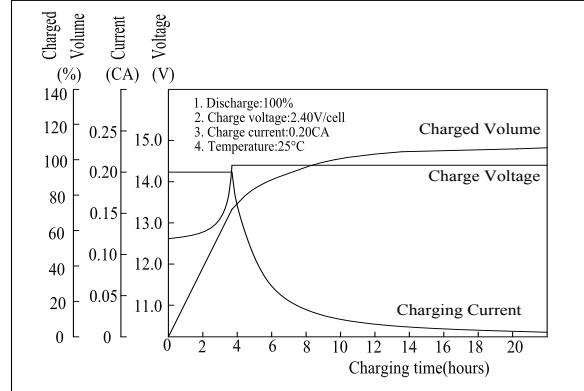
Construction

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

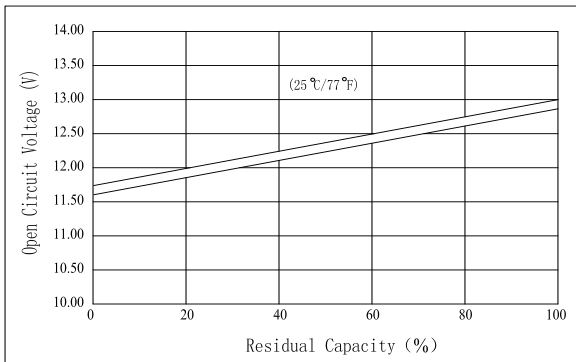
Discharge Characteristics(25°C)



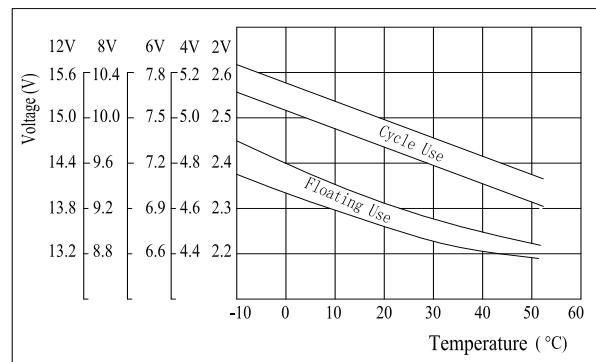
Charging Characteristics(25°C)



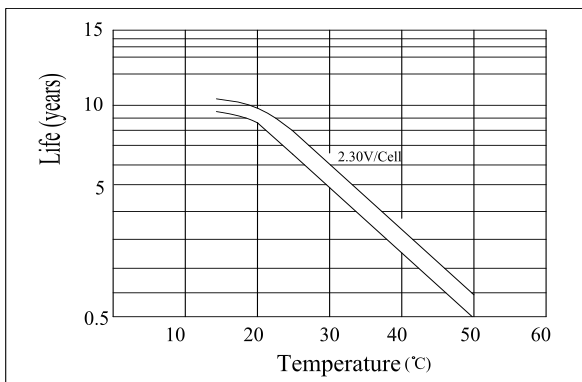
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



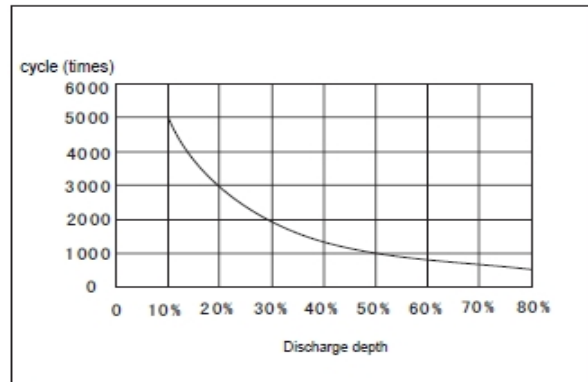
The Relationship for Charging Voltage and Temperature



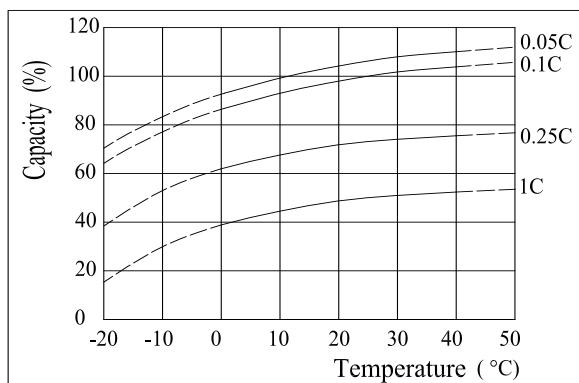
Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

