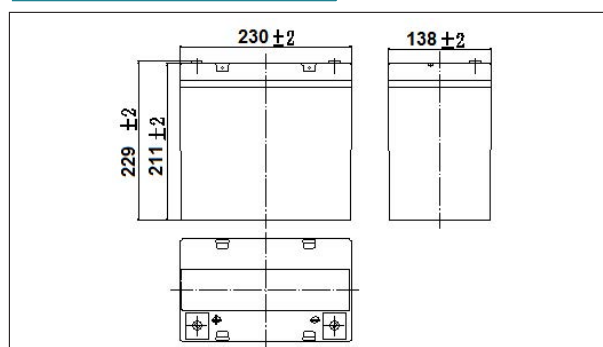




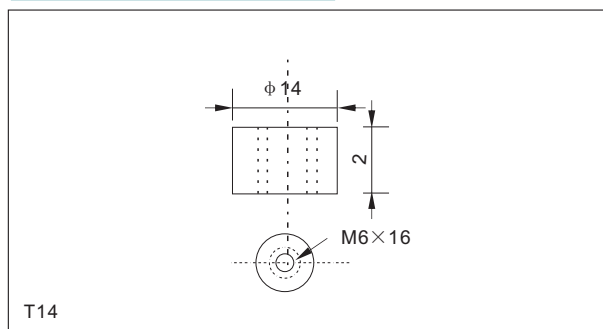
● Specifications

Nominal Voltage		12V
Rated capacity (10 hour rate)		55Ah
Dimensions	Length	230±2mm(9.06inch)
	Width	138±2mm(5.43inch)
	Height	211±2mm(8.31inch)
	Total Height	229±2mm(9.02inch)
Approx. Weight		16.7kg(36.8lbs)±3%

● Outer dimensions (mm)



● Terminal Type (mm)



● Characteristics

Capacity (25°C)	10HR(10.8V)	55Ah
	3HR(10.8V)	39.9Ah
	1HR(10.5V)	32.1Ah
Terminal type		T14
Internal resistance (Fully charged, 25°C)		Approx. 6.5m Ω
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 months	Remaining Capacity:91%
	6 months	Remaining Capacity:82%
	12 months	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		16.5A
Maximum discharge current		550A(5 sec.)
Designed floating life(20°C)		10years

● 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

● Constant Current Discharge Characteristics Unit:A(25°C,77°F)

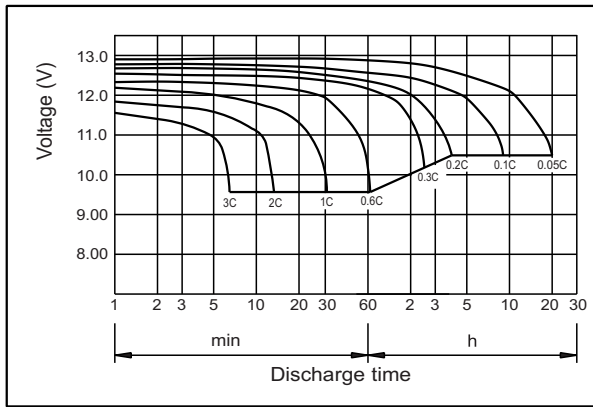
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	116	90.8	55.0	34.1	20.1	14.0	11.5	9.82	6.73	5.60	2.94
9.90V	112	88.6	53.9	33.6	20.0	13.9	11.4	9.76	6.69	5.59	2.93
10.2V	107	85.3	52.3	32.7	19.8	13.8	11.4	9.69	6.65	5.57	2.93
10.5V	103	82.4	51.0	32.1	19.5	13.8	11.3	9.63	6.60	5.54	2.91
10.8V	97.0	78.0	49.1	31.1	19.0	13.3	10.9	9.34	6.40	5.50	2.89

● Constant Power Discharge Characteristics Unit:W(25°C,77°F)

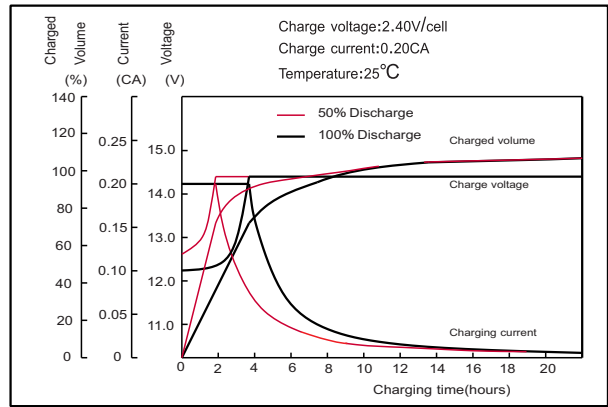
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1247	996	617	389	233	165	135	116	80.0	66.9	35.3
9.90V	1210	973	605	383	231	164	134	115	79.5	66.7	35.2
10.2V	1160	937	586	373	229	163	134	115	79.0	66.5	35.1
10.5V	1110	905	572	366	226	162	133	114	78.4	66.1	34.9
10.8V	1048	857	551	355	220	157	129	110	76.1	65.7	34.7

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

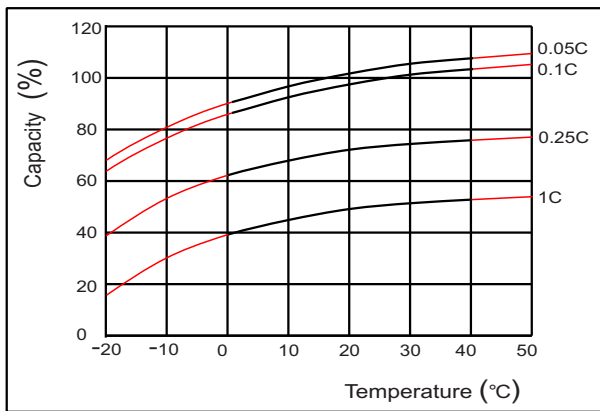
Discharge characteristics(25°C)



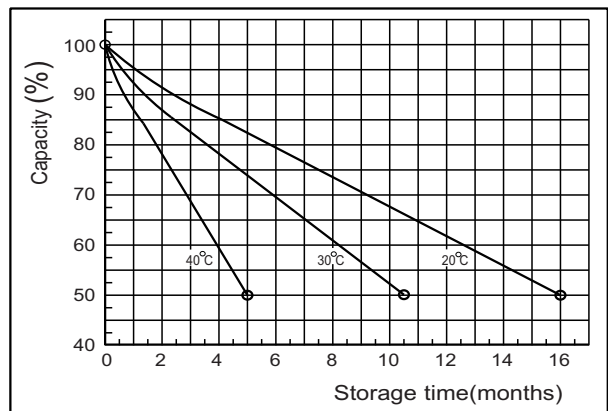
Charging characteristics (25°C)



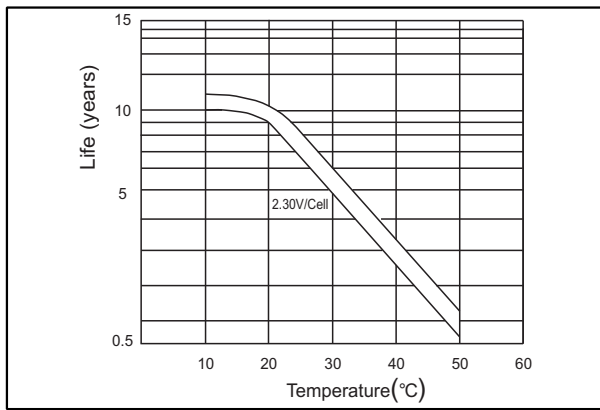
Temperature effects on Capacity



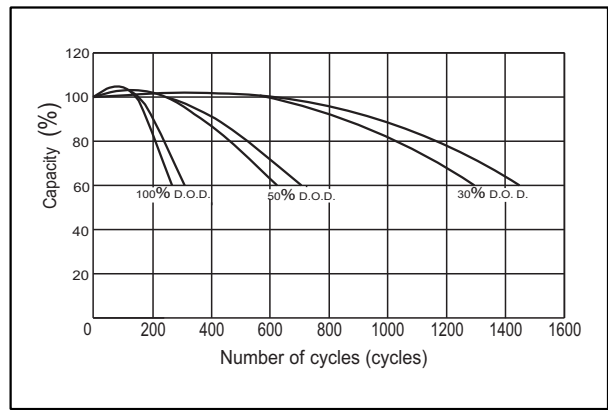
Self-discharge characteristics



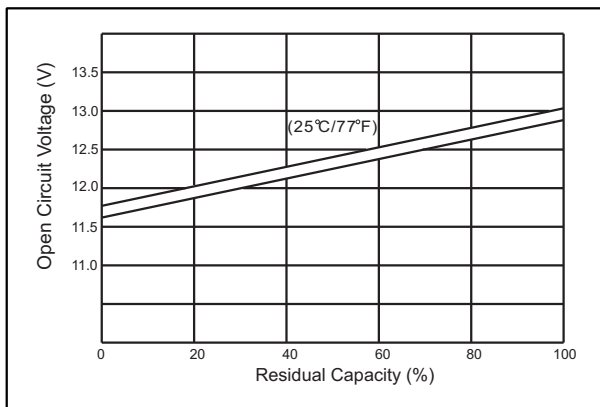
Floating life on Temperature



Cycle life on D.O.D (25°C)



The relationship for OCV and Capacity (25°C)



The relationship for Charging voltage and Temperature

