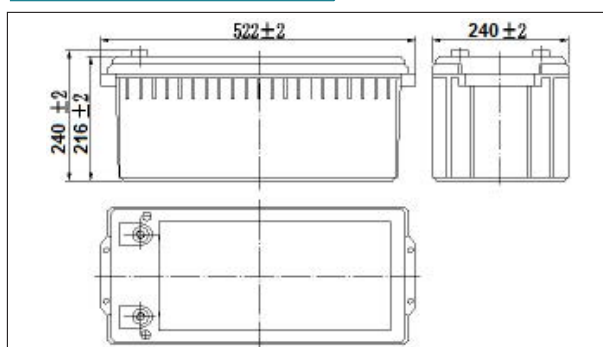


● Specifications

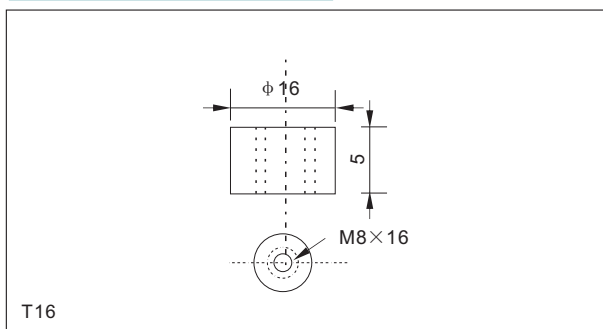
Nominal Voltage		12V
Rated capacity (10 hour rate)		220Ah
Dimensions	Length	522±2mm(20.55inch)
	Width	240±2mm(9.45inch)
	Height	216±2mm(8.5inch)
	Total Height	240±2mm(9.45inch)
Approx. Weight		61.5kg(135.5lbs)±3%



● Outer dimensions (mm)



● Terminal Type (mm)



● Characteristics

Capacity (25°C)	10HR(10.8V)	220Ah
	3HR(10.8V)	160.2Ah
	1HR(10.5V)	128Ah
Terminal type		T16
Internal resistance (Fully charged, 25°C)		Approx. 3 m Ω
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3month	Remaining Capacity:91%
	6month	Remaining Capacity:82%
	12month	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	66A	
Terminal material	Copper	
Maximum discharge current	1700A(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)

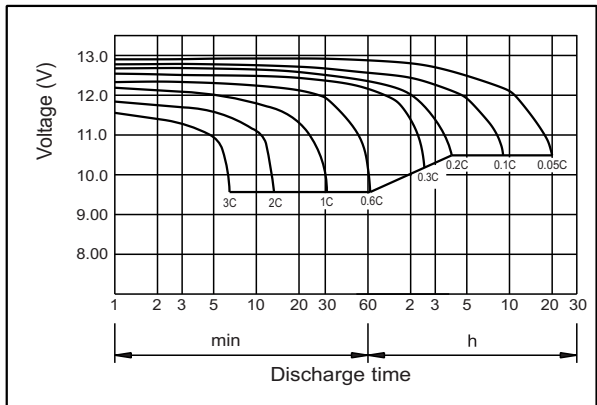
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	363	220	136	80.4	56.1	46.0	39.3	34.3	26.9	22.4	11.8
9.90V	354	216	134	79.9	55.8	45.7	39.0	34.1	26.8	22.4	11.7
10.2V	341	209	131	79.2	55.4	45.4	38.8	33.9	26.6	22.3	11.7
10.5V	330	204	128	78.0	55.0	45.1	38.5	33.7	26.4	22.2	11.6
10.8V	312	196	124	76.0	53.4	43.7	37.3	32.7	25.6	22.0	11.6

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

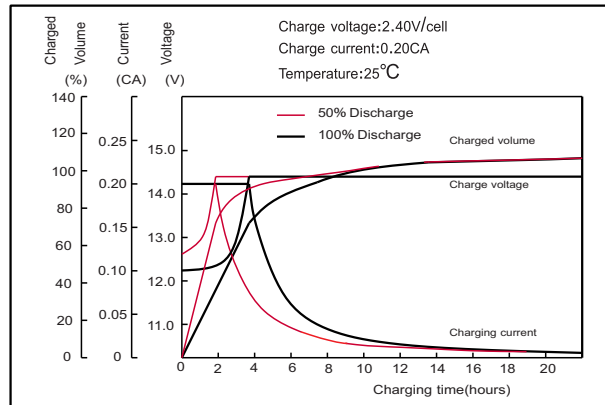
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	3986	2468	1555	931	660	541	464	406	320	267	141
9.90V	3890	2419	1532	925	656	538	461	403	318	267	141
10.2V	3747	2345	1493	917	651	534	458	401	316	266	140
10.5V	3619	2288	1463	903	647	530	455	398	314	265	140
10.8V	3428	2204	1418	880	627	514	441	386	304	263	139

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

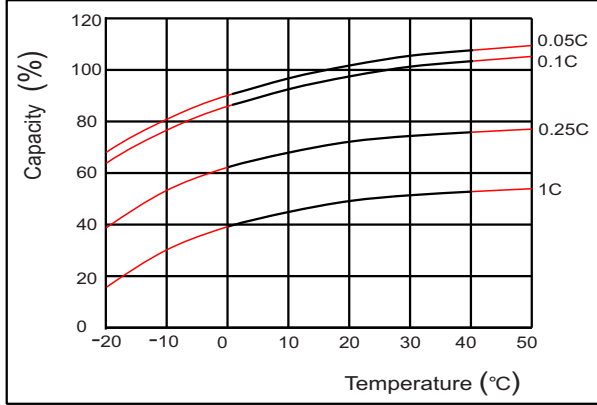
● Discharge characteristics(25°C)



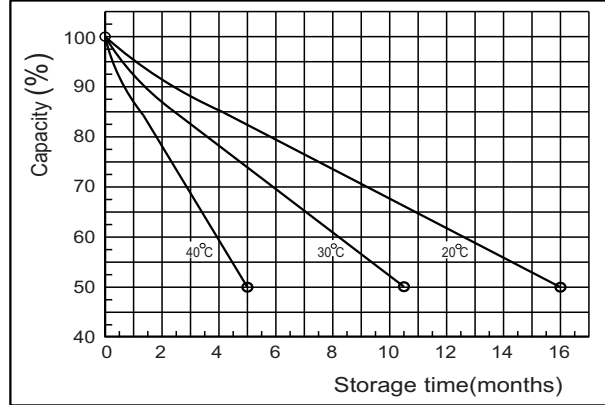
● Charging characteristics (25°C)



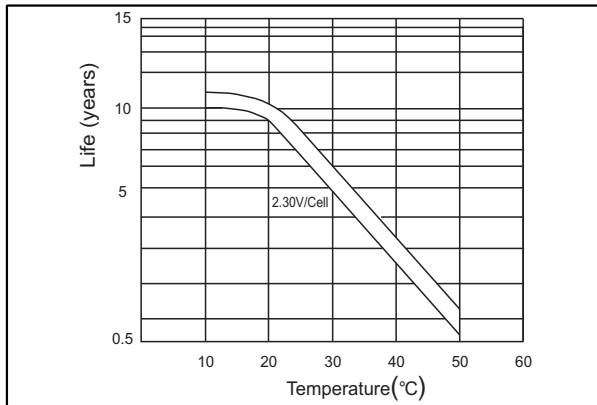
● Temperature effects on Capacity



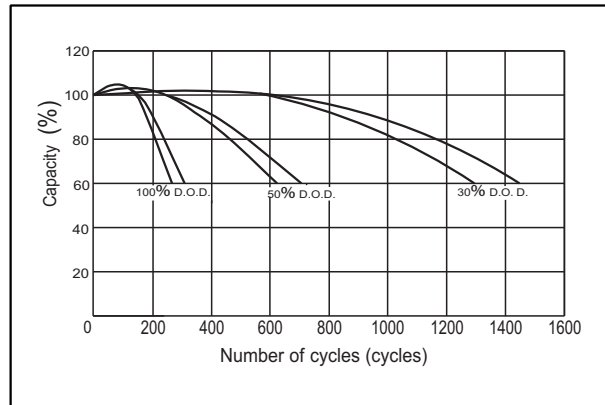
● Self-discharge characteristics



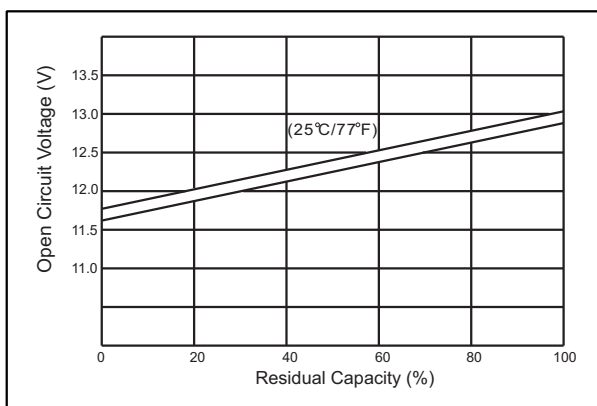
● Floating life on Temperature



● Cycle life on D.O.D (25°C)



● The relationship for OCV and Capacity (25°C)



● The relationship for Charging voltage and Temperature

