

FT12-105Ah 12V105Ah

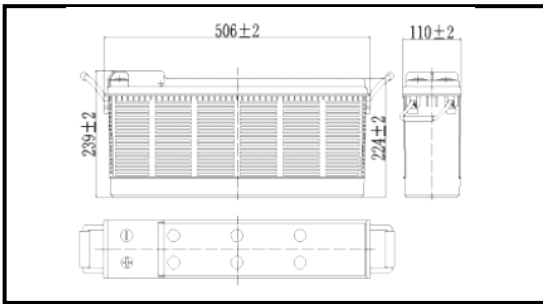
Valve Regulated Lead Acid Battery



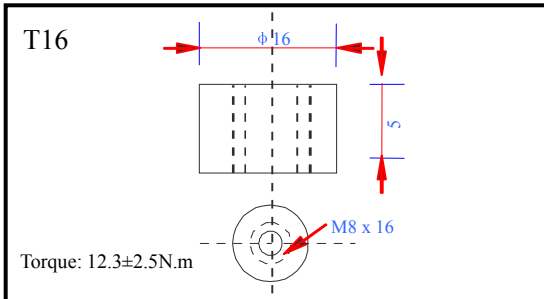
Specifications

Nominal voltage	12V (6 cells per unit)	
Rated capacity (10HR)	105Ah/10.8V	
Dimensions	Length	506±2mm (19.92inch)
	Width	110±2mm (4.33inch)
	Height	224±2mm (8.82inch)
	Total height	239±2mm (9.41inch)
Approx. weight	32.00kg (70.50lbs)±3%	

Outer dimensions (mm)



Terminal type (mm)



Characteristics

Capacity (25°C)	10HR (10.8V)	105Ah
	3HR (10.8V)	79Ah
	1HR (10.5V)	58Ah
Terminal type		T16
Internal resistance (Fully charged, 25°C)		Approx. 5mΩ
Capacity affected by temperature (10HR)	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/Block
Cyclic charging voltage (25°C)		14.50 to 15.00V Temperature compensation: -30mV/°C/Block
Maximum charging current		31.5A
Maximum discharge current		800A (5 sec.)
Design life	12 years for floating (25°C)	
	Eurobat (20°C): 10-12 years, long life.	

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: Ampere/Block (at 25°C, 77°F)

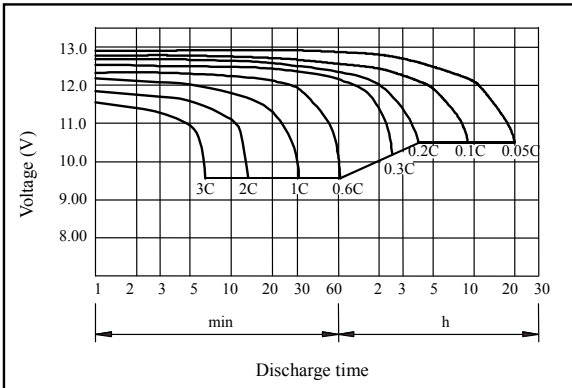
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	224	173	103	63.6	38.4	27.6	22.1	18.8	13	10.7	5.67
9.90V	218	169	101	62.6	38.1	27.5	21.9	18.7	12.9	10.7	5.65
10.2V	209	162	98.2	61	37.8	27.3	21.8	18.6	12.8	10.6	5.64
10.5V	200	157	95.9	59.1	37.2	27.1	21.6	18.5	12.7	10.6	5.6
10.8V	188	149	92.3	57.2	36.3	26.3	21	17.9	12.3	10.5	5.57

Constant power discharge characteristics unit: Watt/Block (at 25°C, 77°F)

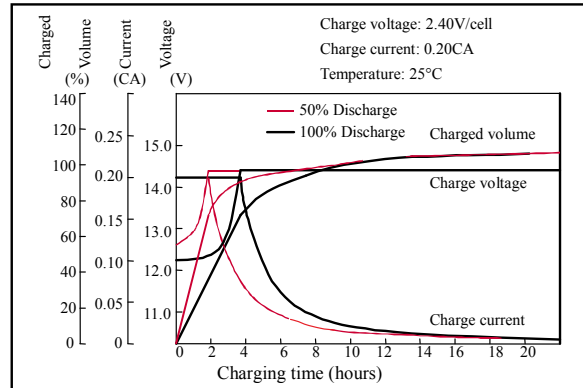
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2423	1898	1160	725	444	325	259	223	154	128	68
9.90V	2350	1853	1137	714	442	323	258	221	153	127	67.8
10.2V	2253	1784	1102	696	438	321	256	220	152	127	67.6
10.5V	2156	1724	1076	674	431	319	254	218	151	126	67.2
10.8V	2035	1632	1036	652	420	309	247	212	146	125	66.8

Note 1: Above characteristics data can be obtained within three charge and discharge cycles.

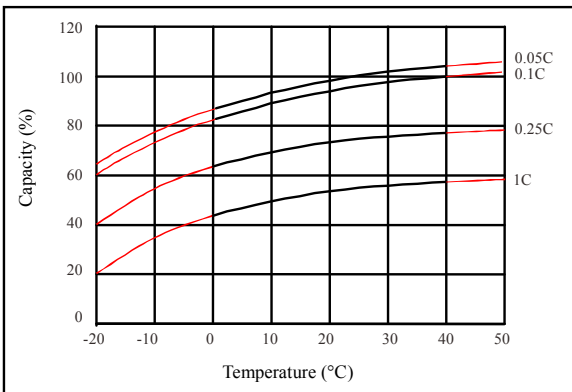
● Discharge characteristics (25°C)



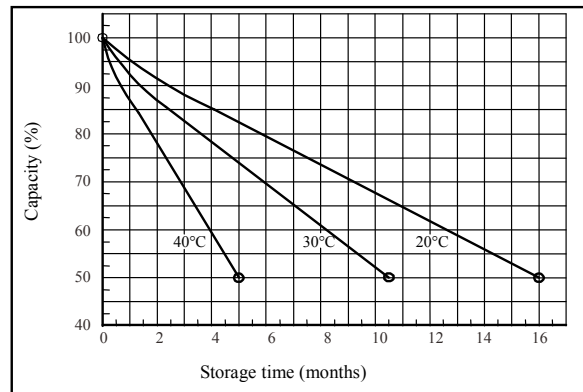
● Charging characteristics (25°C)



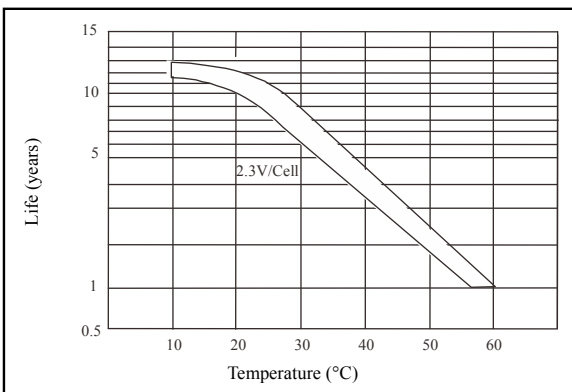
● Temperature effects on capacity



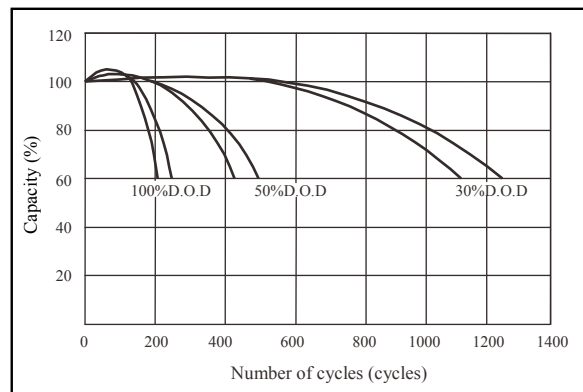
● Self-discharge characteristics



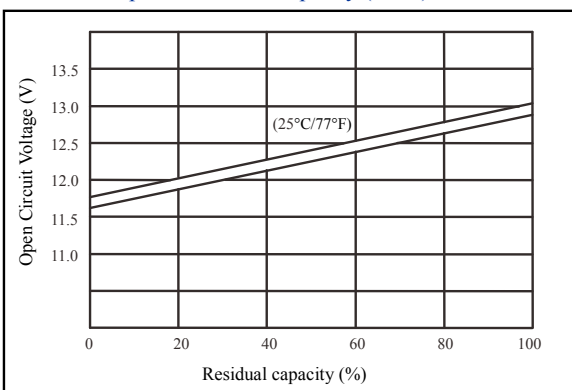
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

