

FTG12-105Ah 12V105Ah

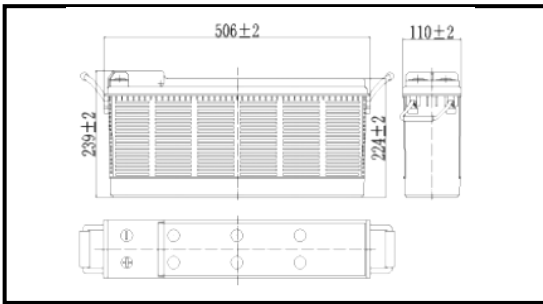
Valve Regulated Lead Acid Battery



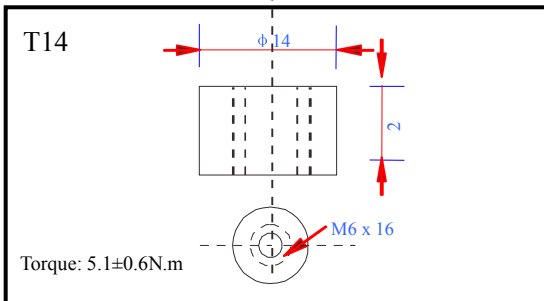
● Specifications

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)	78Ah
	1HR (10.5V)	57Ah
Terminal type		T14
Internal resistance (Fully charged, 25°C)		Approx. 5.5mΩ
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)		14.40 to 14.70V Temperature compensation: -30mV/°C/Block
Maximum charging current		21A
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	Gel	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	201	165	100	61.7	38.4	27.3	21.4	18.2	12.9	10.7	5.67
9.90V	195	161	97.8	60.8	38.1	27.1	21.3	18.1	12.8	10.7	5.65
10.2V	187	155	94.8	59.3	37.8	27.0	21.1	18.0	12.7	10.6	5.64
10.5V	179	149	92.5	57.4	37.2	26.8	21.0	17.9	12.6	10.6	5.60
10.8V	169	142	89.1	55.6	36.3	26.2	20.4	17.3	12.2	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	2167	1808	1120	704	444	321	252	215	153	128	68.0
9.90V	2102	1764	1098	693	442	319	250	214	152	127	67.8
10.2V	2015	1699	1064	676	438	317	249	212	151	127	67.6
10.5V	1929	1641	1038	655	431	315	247	211	150	126	67.2
10.8V	1820	1555	1000	633	420	309	240	205	145	125	66.8

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

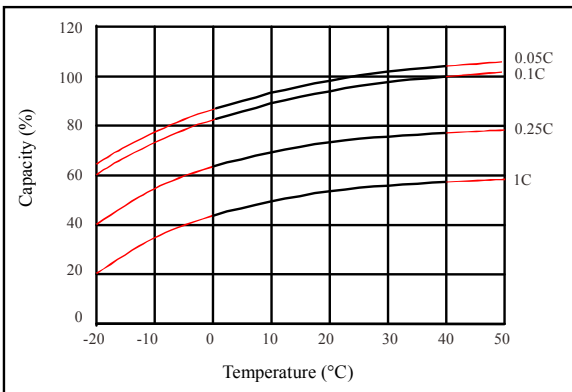
● Discharge characteristics (25°C)



● Charging characteristics (25°C)



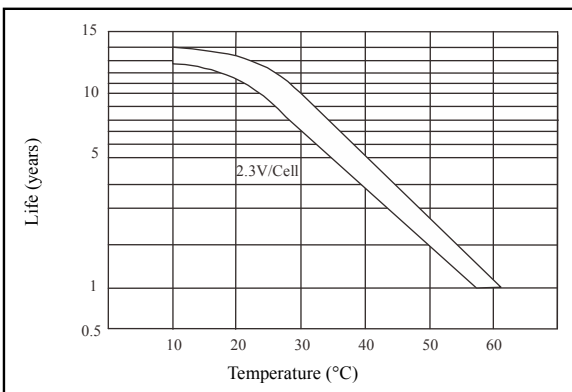
● Temperature effects on capacity



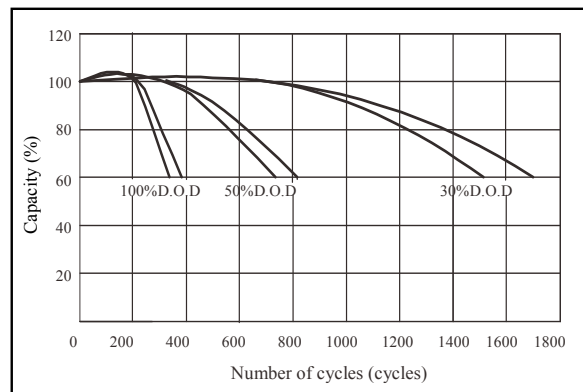
● Self-discharge characteristics



● 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

