

FTG12-75Ah 12V75Ah

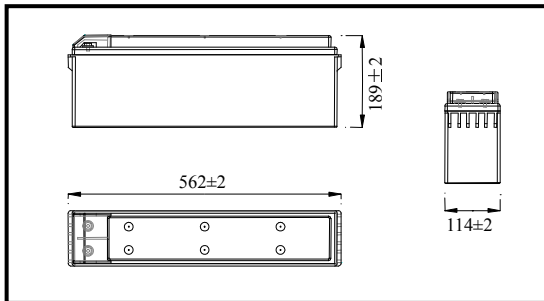
Valve Regulated Lead Acid Battery

● Specifications

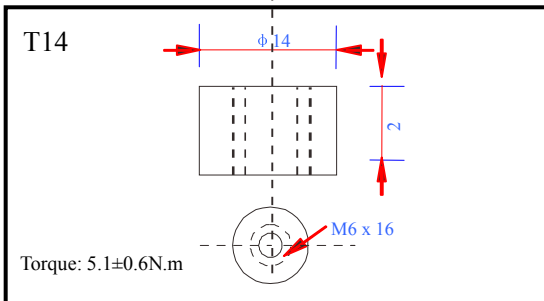
Nominal voltage	12V (6 cells per unit)	
Rated capacity (10HR)	75Ah/10.8V	
Dimensions	Length	562±2mm (22.12inch)
	Width	114±2mm (4.49inch)
	Height	189±2mm (7.44inch)
	Total height	189±2mm (7.44inch)
Approx. weight	25.00kg (54.01lbs)±3%	



● Outer dimensions (mm)



● Terminal type (mm)



● Characteristics

Capacity (25°C)	10HR (10.8V)	75Ah
	3HR (10.8V)	55.5Ah
	1HR (10.5V)	41Ah
Terminal type		T14
Internal resistance (Fully charged, 25°C)		Approx. 6.5mΩ
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		15A
Maximum discharge current		600A (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)

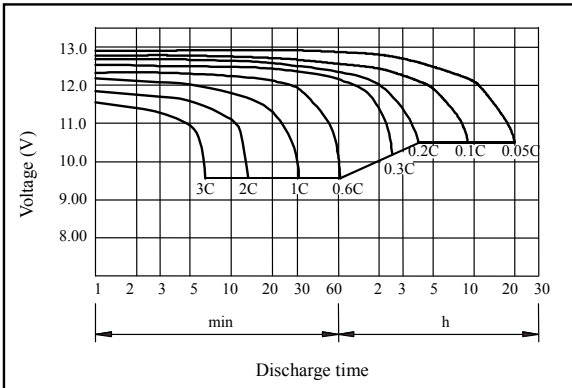
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	143	118	71.3	44.1	27.4	19.5	15.3	13.0	9.18	7.64	4.05
9.90V	139	115	69.9	43.4	27.2	19.4	15.2	12.9	9.13	7.62	4.04
10.2V	133	111	67.7	42.3	27.0	19.3	15.1	12.8	9.06	7.60	4.03
10.5V	128	107	66.1	41.0	26.6	19.1	15.0	12.8	9.00	7.55	4.00
10.8V	120	101	63.7	39.7	25.9	18.7	14.6	12.4	8.73	7.50	3.98

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

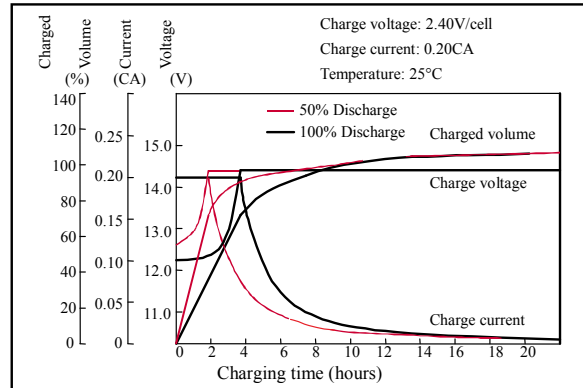
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1548	1291	800	503	317	229	180	154	109	91.2	48.6
9.90V	1501	1260	784	495	315	228	179	153	108	91.0	48.5
10.2V	1440	1214	760	483	313	226	178	152	108	90.7	48.3
10.5V	1378	1172	742	468	308	225	176	151	107	90.2	48.0
10.8V	1300	1110	714	452	300	220	171	146	104	89.6	47.7

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

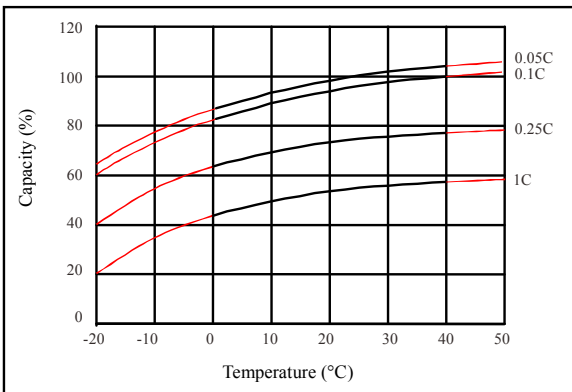
● Discharge characteristics (25°C)



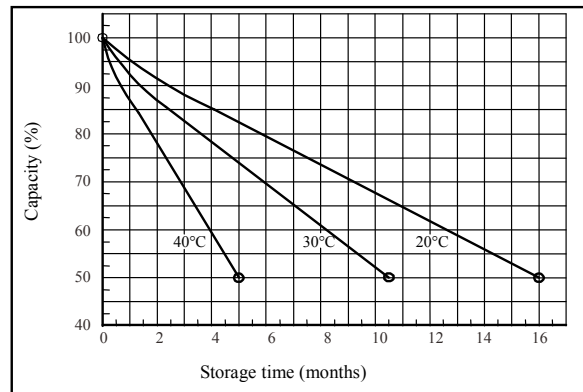
● Charging characteristics (25°C)



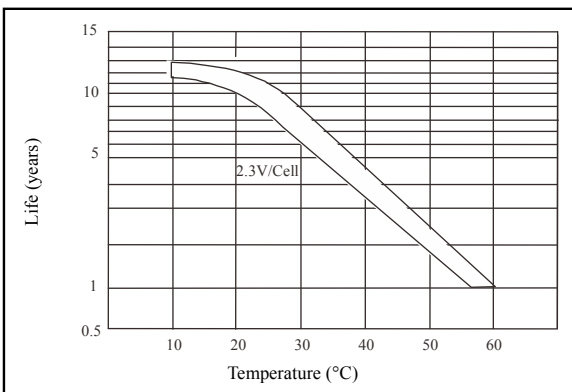
● Temperature effects on capacity



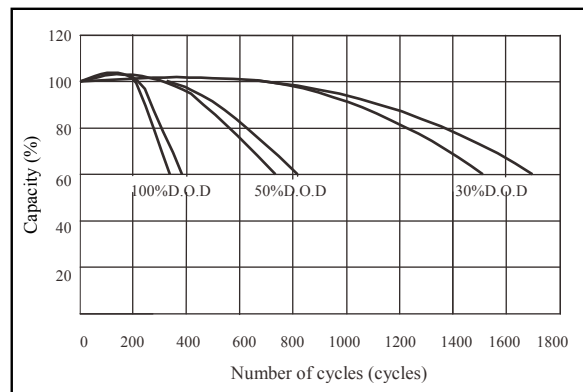
● Self-discharge characteristics



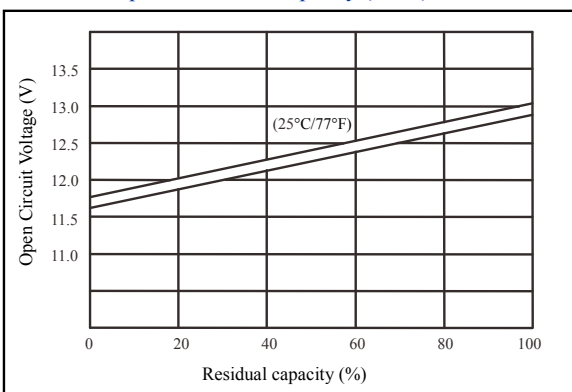
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

