

## FTG12-150Ah 12V150Ah

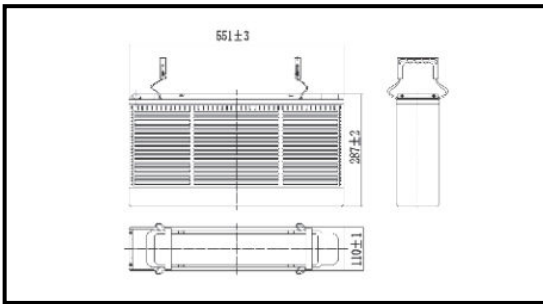
### Valve Regulated Lead Acid Battery



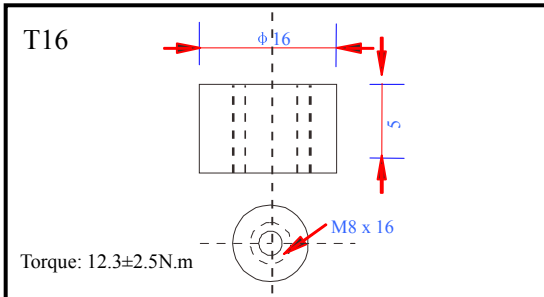
#### Specifications

Nominal voltage	12V (6 cells per unit)	
Rated capacity (10HR)	150Ah/10.8V	
Dimensions	Length	551±2mm (21.69inch)
	Width	110±2mm (4.33inch)
	Height	287±2mm (11.30inch)
	Total height	287±2mm (11.30inch)
Approx. weight	48.00kg (105.80lbs)±3%	

#### Outer dimensions (mm)



#### Terminal type (mm)



#### Characteristics

Capacity (25°C)	10HR (10.8V)	150Ah
	3HR (10.8V)	111Ah
	1HR (10.5V)	79Ah
Terminal type		T16
Internal resistance (Fully charged, 25°C)		Approx. 4.5mΩ
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		30A
Maximum discharge current		1050A (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)

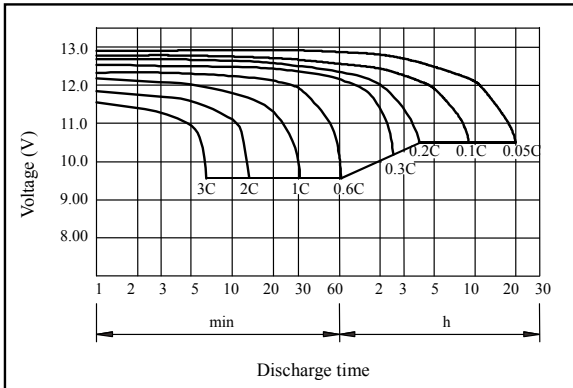
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	235	143	88.2	54.8	39.0	30.6	26.0	23.0	18.4	15.3	8.09
9.90V	230	140	86.9	54.5	38.8	30.4	25.9	22.8	18.3	15.2	8.08
10.2V	221	135	84.7	54.0	38.5	30.2	25.7	22.7	18.1	15.2	8.05
10.5V	214	132	82.0	53.2	38.3	30.0	25.5	22.5	18.0	15.1	8.01
10.8V	202	127	79.4	51.8	37.5	29.1	24.7	21.8	17.5	15.0	7.95

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

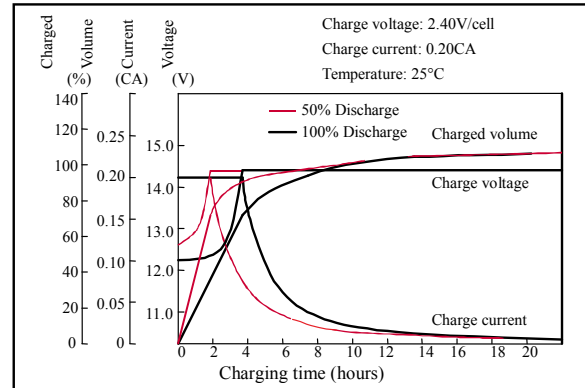
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	2582	1600	1005	635	459	360	307	271	218	182	97.1
9.90V	2521	1568	990	631	456	358	306	270	217	182	96.9
10.2V	2428	1520	965	625	453	355	304	268	215	181	96.6
10.5V	2345	1483	935	616	450	353	301	266	214	180	96.1
10.8V	2221	1429	905	600	441	342	292	258	207	179	95.4

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

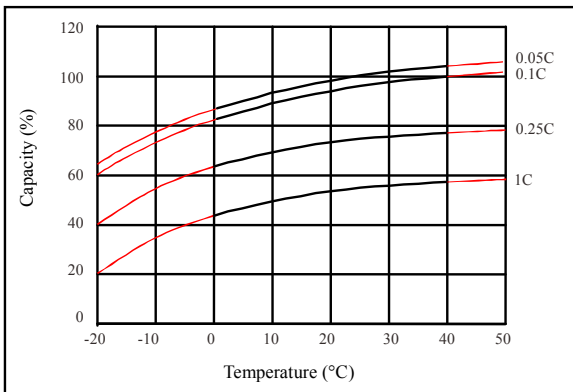
### ● Discharge characteristics (25°C)



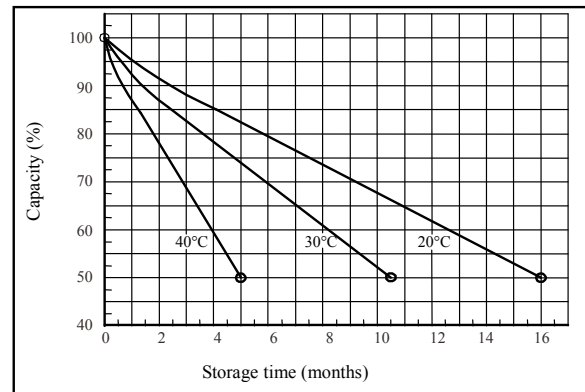
### ● Charging characteristics (25°C)



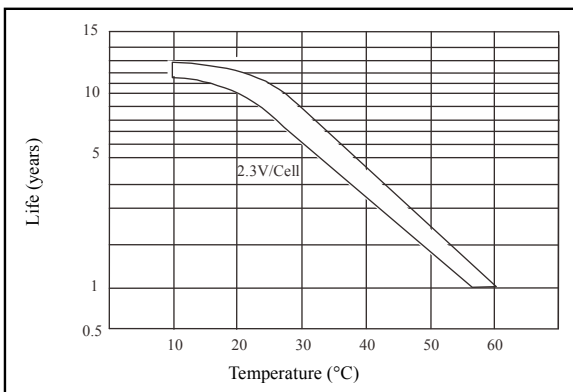
### ● Temperature effects on capacity



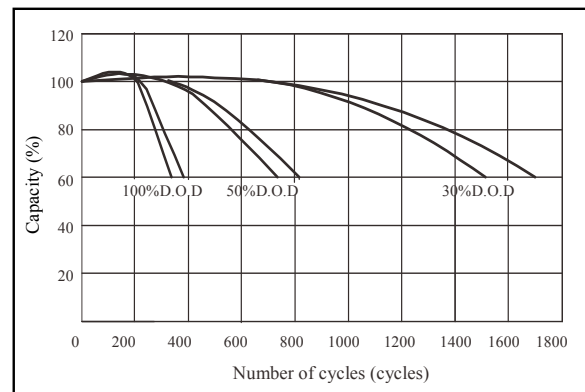
### ● Self-discharge characteristics



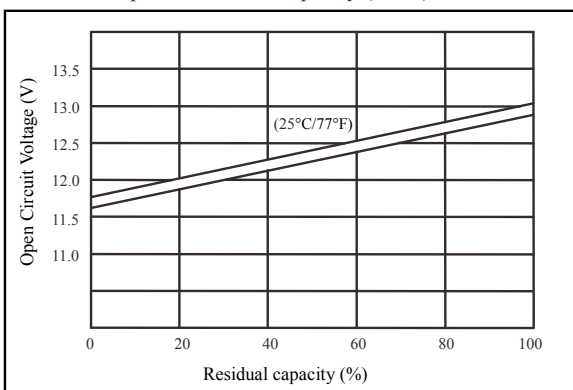
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



### ● Relationship for OCV and capacity (25°C)



### ● Relationship for charging voltage and temperature

