

FTG12-125Ah 12V125Ah

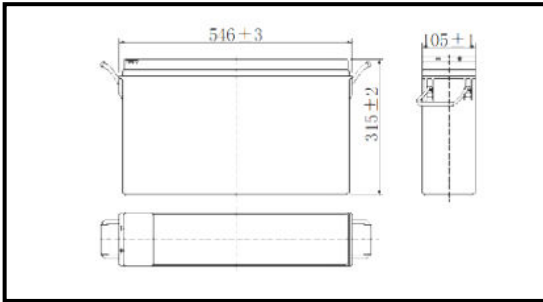
Valve Regulated Lead Acid Battery



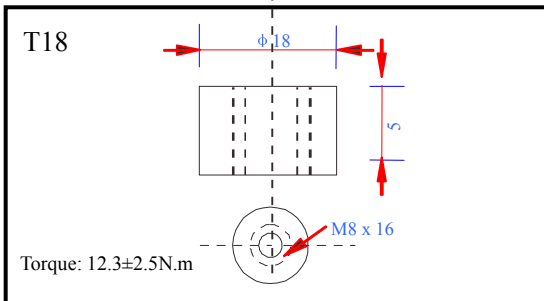
Specifications

Nominal voltage	12V (6 cells per unit)	
Rated capacity (10HR)	125Ah/10.8V	
Dimensions	Length	546±2mm (21.50inch)
	Width	105±2mm (4.13inch)
	Height	315±2mm (12.40inch)
	Total height	315±2mm (12.40inch)
Approx. weight	41.50kg (91.50lbs)±3%	

Outer dimensions (mm)



Terminal type (mm)



Characteristics

Capacity (25°C)	10HR (10.8V)	125Ah
	3HR (10.8V)	93Ah
	1HR (10.5V)	68Ah
Terminal type		T18
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)		14.40 to 14.70V Temperature compensation: -30mV/°C/Block
Maximum charging current		25A
Maximum discharge current		900A (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)

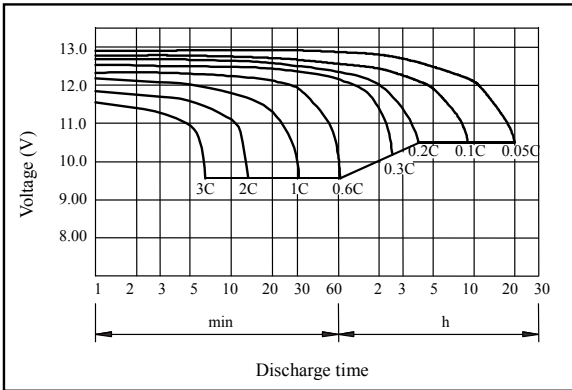
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	196	119	73.5	45.7	32.5	25.5	21.7	19.1	15.3	12.7	6.74
9.90V	191	116	72.4	45.4	32.3	25.4	21.5	19.0	15.2	12.7	6.73
10.2V	184	113	70.6	45.0	32.1	25.2	21.4	18.9	15.1	12.7	6.71
10.5V	178	110	68.4	44.3	31.9	25.0	21.3	18.8	15.0	12.6	6.67
10.8V	169	106	66.2	43.2	31.2	24.3	20.6	18.2	14.6	12.5	6.63

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

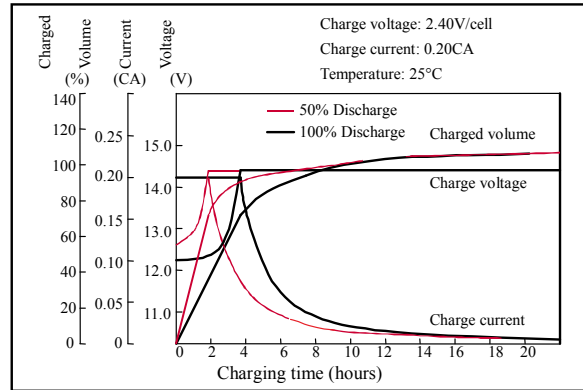
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	2152	1333	838	529	382	300	256	226	182	152	80.9
9.90V	2100	1307	825	526	380	298	255	225	181	152	80.8
10.2V	2023	1267	804	521	377	296	253	223	179	151	80.5
10.5V	1954	1236	779	513	375	294	251	222	178	150	80.1
10.8V	1851	1191	754	500	367	285	244	215	173	149	79.5

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

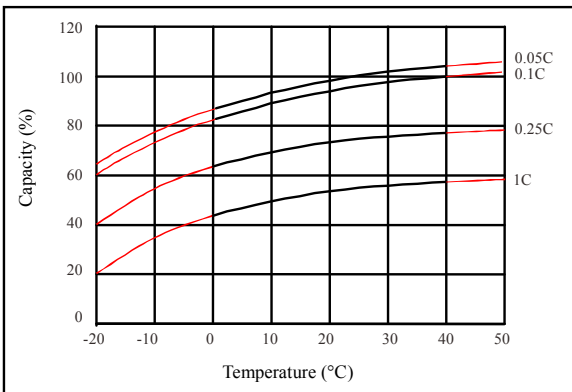
● Discharge characteristics (25°C)



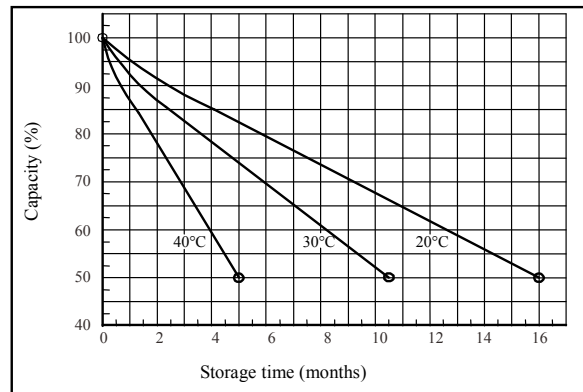
● Charging characteristics (25°C)



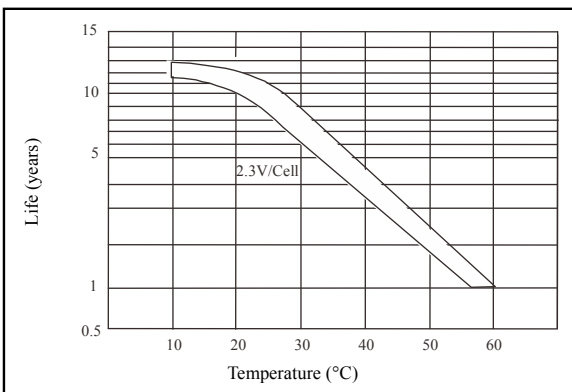
● Temperature effects on capacity



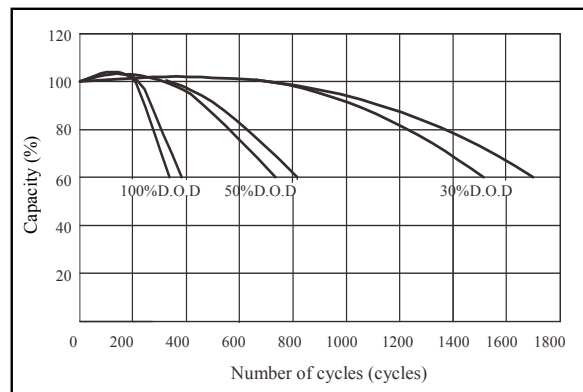
● Self-discharge characteristics



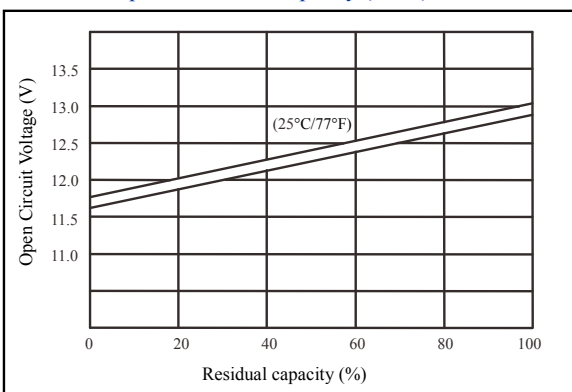
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

