

FT12-55Ah 12V55Ah

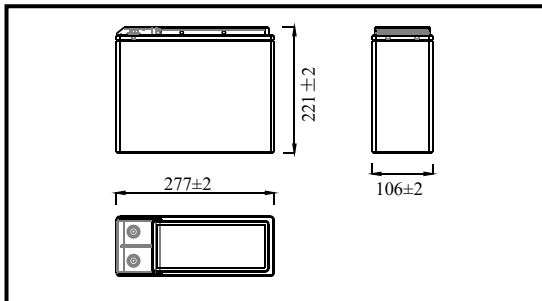
Valve Regulated Lead Acid Battery



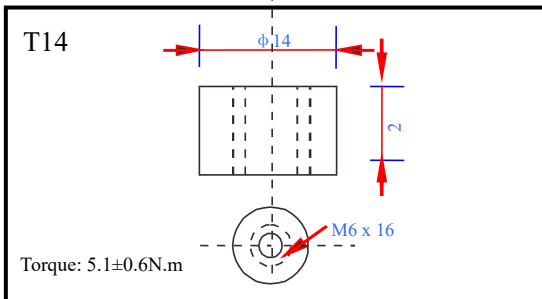
Specifications

Nominal voltage	12V (6 cells per unit)	
Rated capacity (10HR)	55Ah/10.8V	
Dimensions	Length	277±2mm (10.91inch)
	Width	106±2mm (4.17inch)
	Height	221±2mm (8.70inch)
	Total height	221±2mm (8.70inch)
Approx. weight	17.30kg (38.10lbs)±3%	

Outer dimensions (mm)



Terminal type (mm)



Characteristics

Capacity (25°C)	10HR (10.8V)	55Ah
	3HR (10.8V)	41.1Ah
	1HR (10.5V)	30.5Ah
Terminal type		T14
Internal resistance (Fully charged, 25°C)		Approx. 7mΩ
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		16.5A
Maximum discharge current		400A (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)

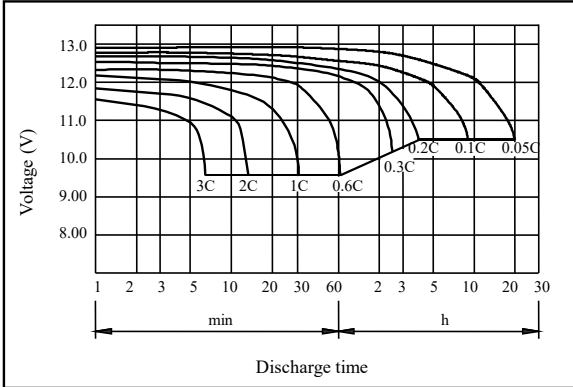
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	118	90.6	54.2	33.3	20.1	14.5	11.6	9.87	6.79	5.60	2.97
9.90V	114	88.4	53.1	32.8	20.0	14.4	11.5	9.82	6.75	5.59	2.96
10.2V	109	85.1	51.5	32.0	19.8	14.3	11.4	9.75	6.70	5.57	2.95
10.5V	105	82.2	50.2	31.0	19.5	14.2	11.3	9.68	6.66	5.54	2.94
10.8V	98.7	77.9	48.4	30.0	19.0	13.8	11.0	9.39	6.46	5.50	2.92

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

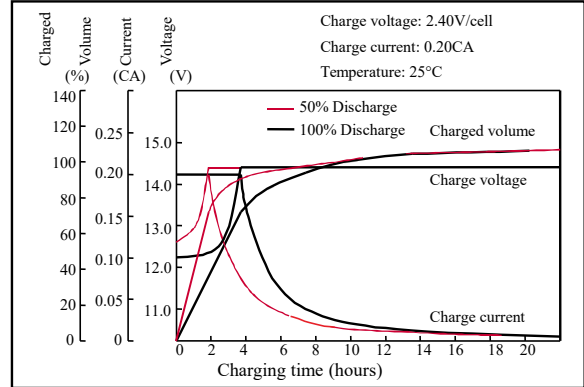
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1269	994	608	380	233	170	136	117	80.6	66.9	35.6
9.90V	1231	970	596	374	231	169	135	116	80.2	66.7	35.5
10.2V	1180	935	577	365	229	168	134	115	79.6	66.5	35.4
10.5V	1129	903	563	353	226	167	133	114	79.1	66.1	35.2
10.8V	1066	855	543	342	220	162	129	111	76.7	65.7	35.0

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

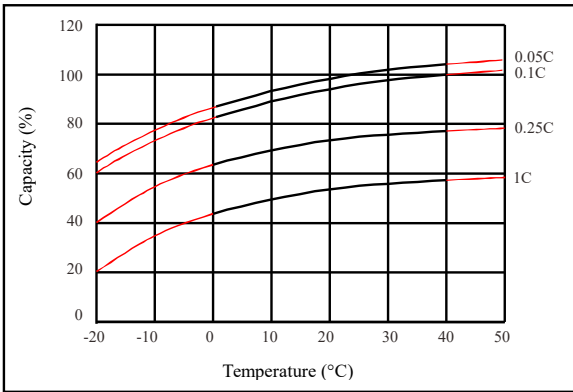
● Discharge characteristics (25°C)



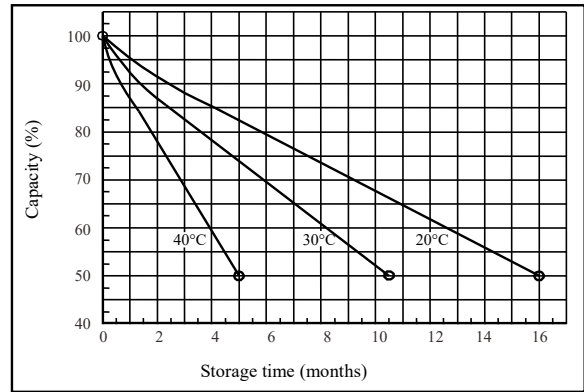
● Charging characteristics (25°C)



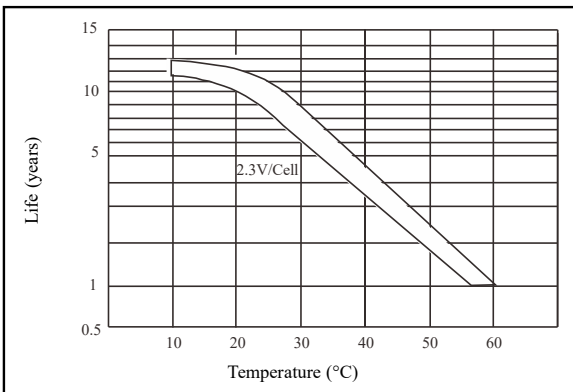
● Temperature effects on capacity



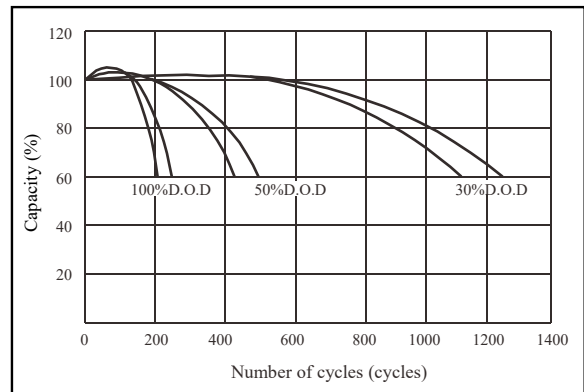
● Self-discharge characteristics



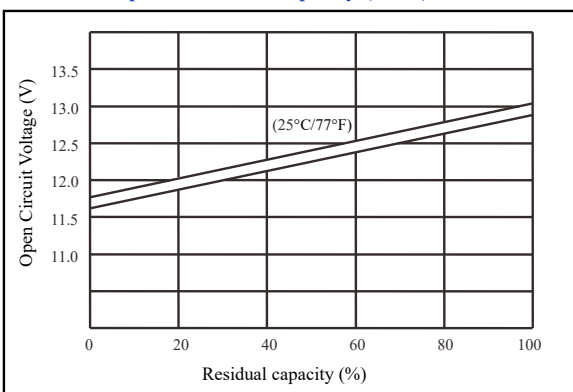
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

