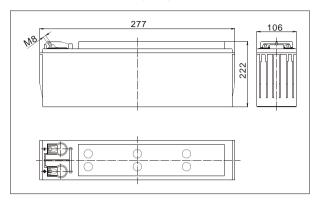
TC12-55-F



Outer dimensions (mm)



TianChang sealed lead-acid rechargeable battery (VRLA battery) is leak-proof and maintenance free. The Superiority of VRLA battery is derived from its uniquely efficient oxygen recombination technology. The oxygen evolved from the positive plates diffuses through the micro porous glass fiber mat to the negative plates where it is changed back to water by recombination reaction, eliminating the need for water addition .The result is a maintenance free battery.

Battery Construction -

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw materia	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General Features

- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- · UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tinalloy grid for high power density.
- Long service life, float or cyclic applications.
- · Maintenance-free operation.
- · Low self discharge.

Application -

- · Alarm System
- · Medical Equipment
- · Cable Television
- Control Equipment
- UPS
- · Communication Equipment
- Tovs
- Emergency power System
- Power Tools
- · Security System

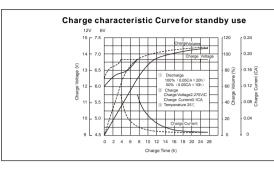
Specifications

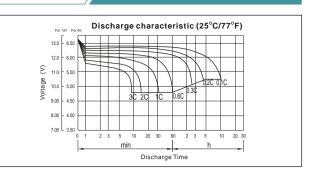
Nominal	Voltage	12V			
Capacity (10 hr 25℃)	55Ah			
Desig	n Life	12 Years			
	Length	277 mm (10.90 inch)			
Dimensions	Width	106 mm (4.17 inch)			
Dimensions	Height	222 mm (8.74 inch)			
	Total Height	222 mm (8.74 inch)			
Approx	.Weight	17 Kg			
Capacity	10 hr rate	55Ah			
25°C(77°F)	3 hr rate	44Ah			
200(111)	1 hr rate	35.75Ah			
	sistance (Full ry at 25℃(77℉)	6.0 m Ω			

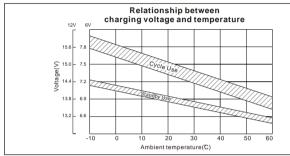
Capacity	40℃	102%			
affected	25℃	100%			
by Temperature	0℃	85%			
(20hr)	-15℃	65%			
Calf Diagharas	3 month	Remaining capacity: 919			
Self-Discharge at 25℃	6 month	Remaining capacity: 829			
4.20 °	12 month	Remaining capacity: 65%			
Normal opera	ting temperature	25℃ ±3℃(77℉ ±5℉)			
Operating ten	nperature range	-15℃~50℃(5~122℉)			
Float chargin	g voltage(25℃)	13.6 to13.8V			
Cyclic chargir	ng voltage(25℃)	14.5 to 14.9V			
Maximum cl	naging current	16.5A			
Termina	almaterial	Copper			
Maximum Di	schage current	550A(5sec)			

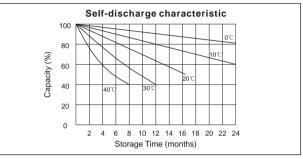


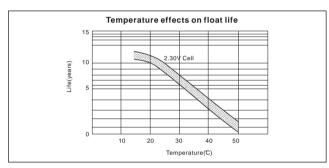
TC12-55-F

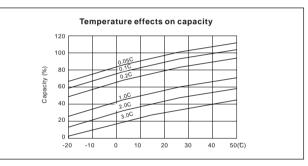


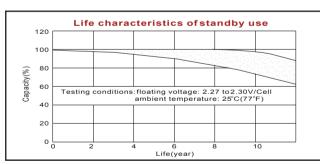


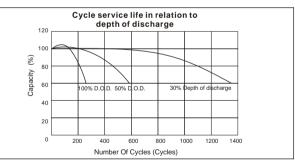












Discharge Constant Current (Amperes at 77° F25 °C)

End Point Volts/Cell	5min	10min	15min	30min	1 h	3h	5h	10h	20h
1. 60V	172	130	98.0	58. 2	35. 2	14.5	9. 98	5. 69	2.98
1. 65V	162	123	94.0	56.5	34.4	14.3	9. 88	5. 65	2. 97
1. 70V	152	115	89. 5	54.5	33. 6	14.0	9. 75	5. 60	2. 95
1. 75V	141	108	84.4	52.9	32. 7	13. 7	9. 60	5. 55	2. 93
1.80V	128	100	50. 5	51.0	31.6	13.4	9.43	5. 50	2.90

Discharge Constant Power (watts at 77° F 25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1 h	2h	3h	5h
1. 60V	330	247	191	115	88. 4	71.4	42. 5	30. 1	19.4
1. 65V	310	233	183	113	87. 1	69.8	41.7	29. 5	19.3
1. 70V	291	220	176	111	85. 3	68. 2	40.8	28. 9	18.8
1. 75V	271	207	168	109	83. 4	66. 6	39.8	28. 3	18. 7
1. 80V	257	192	159	107	81. 2	64.9	38.8	27.7	18. 5



