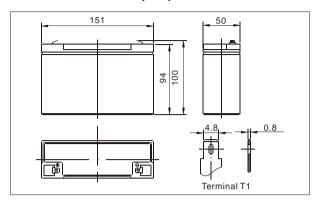
TC6-12

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

INNCHANG

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.

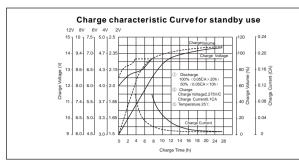
Application

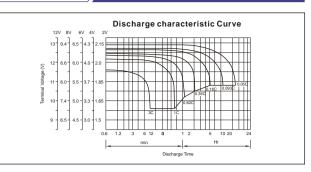
- · Alarm System
- · Medical Equipment
- · Cable Television
- Control Equipment
- UPS
- · Communication Equipment
- Tovs
- Emergency power System
- Power Tools
- Security System

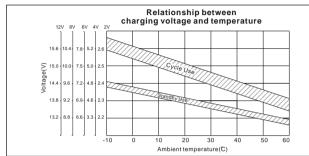
Specifications

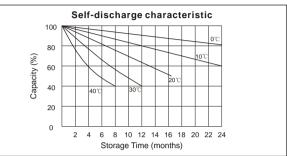
Nominal	Voltage	6V						
Capacity (2	20 hr 25℃)	12 Ah						
Desig	n Life	5 Years						
	Length	151mm (5.94 inch)						
Dimensions	Width	50mm (1.97 inch)						
Dimensions	Height	94 mm (3.70 inch)						
	Total Height	100mm (3.94 inch)						
Approx	.Weight	1.8 Kg						
	20 hr rate	12Ah						
Capacity	10 hr rate	11.16Ah						
25℃(77 ℉)	5 hr rate	10.2Ah						
	1 hr rate	7.2Ah						
	sistance (Full ry at 25℃(77℉)	10m Ω						

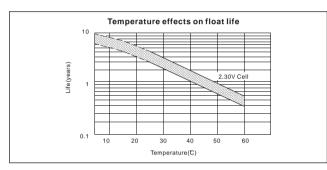
Capacity	40℃	102%			
affected	25℃	100%			
by Temperature	0℃	85%			
(20hr)	-15℃	65%			
Calf Diagharas	3 month	Remaining capacity: 919			
Self-Discharge at 25℃	6 month	Remaining capacity: 829			
4.200	12 month	Remaining capacity: 659			
Normal opera	ting temperature	25℃ ±3℃(77℉ ±5℉)			
Operating ten	nperature range	-15℃~50℃(5~122℉)			
Float chargin	g voltage(25℃)	6.80 to 6.90V			
Cyclic chargir	ng voltage(25℃)	7.25 to 7.45V			
Maximum cl	naging current	4.8A			
Termina	almaterial	Copper			
Maximum Di	schage current	180A(5sec)			

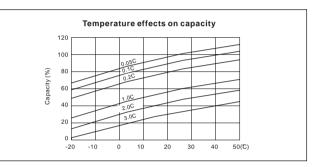


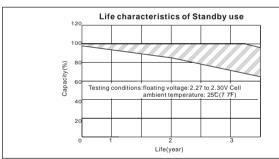


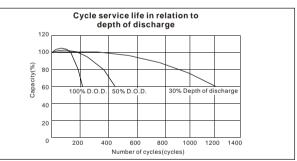












Constant current discharge ratings-amperes at 25 °C

End Point									
Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	46.3	32.6	24.9	13.8	8.09	3.40	2.15	1.22	0.621
1.65V	44.5	31.4	24.2	13.3	7.70	3.29	2.12	1.19	0.616
1.70V	41.9	30.2	23.6	12.8	7.33	3.18	2.09	1.16	0.608
1.75V	39.3	29.0	22.7	12.3	6.96	3.05	2.06	1.14	0.600
1.80V	36.8	27.8	22.0	11.8	6.81	2.91	2.02	1.11	0.589

Constant power discharge ratings-watts at 25 °C

End Point									
Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	85.7	60.4	46.4	25.8	15.2	6.43	4.08	2.32	1.19
1.65V	81.8	57.8	44.8	24.7	14.4	6.19	4.00	2.26	1.18
1.70V	76.7	55.3	43.5	23.6	13.6	5.95	3.92	2.20	1.16
1.75V	71.6	52.8	41.6	22.6	12.9	5.67	3.85	2.14	1.13
1.80V	66.2	50.0	39.8	21.4	12.5	5.35	3.74	2.07	1.10