

# TC6-12-S

#### • 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 material	Leaddioxide	Lead	ABS	ABS	Rubber	Plug	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 tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- · Low self discharge.

### Specifications

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Nominal	Voltage	6V					
Capacity (2	20 hr 25℃)	12 Ah					
Desig	ın Life	5 Years					
	Length	108mm (4.25inch)					
Dimensions	Width	71mm (2.80 inch)					
Dimensions	Height	140 mm (5.51inch)					
	Total Height	140mm (5.51 inch)					
Approx	Weight	1.9 Kg					
	20 hr rate	12Ah					
Capacity	10 hr rate	11.16Ah					
<b>25℃(77°</b> F)	5 hr rate	10.2Ah					
	1 hr rate	7.2Ah					
	sistance (Full ry at 25℃(77°F)	<b>10m</b> Ω					

## Application -

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

Capacity	<b>40</b> °C	102%					
affected	<b>25</b> ℃	100%					
by Temperature	<b>0</b> °C	85%					
(20hr)	<b>-15</b> ℃	65%					
Colf Discharge	3 month	Remaining capacity: 91%					
Self-Discharge at 25℃	6 month	Remaining capacity: 82%					
u(200	12 month	Remaining capacity: 65%					
Normal operat	ting temperature	25℃±3℃(77°F±5°F)					
Operating ten	nperature range	-15℃~50℃(5~122°F)					
Float chargin	g voltage(25°C)	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)					



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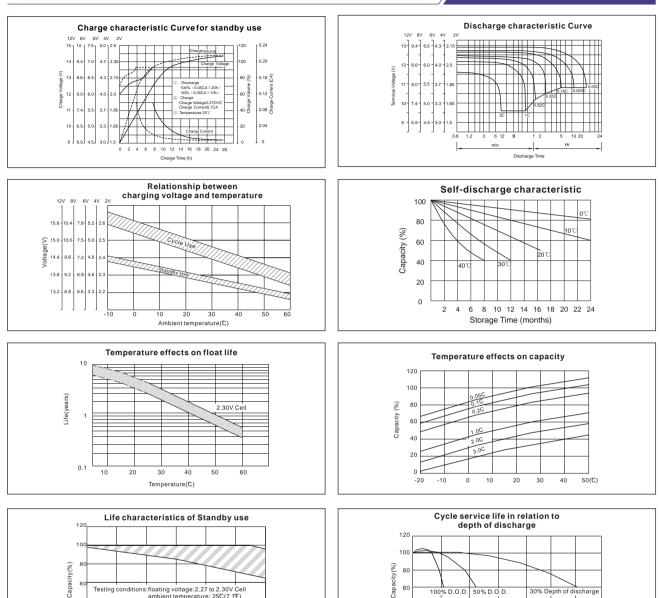
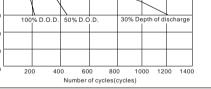


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	Constant Current Discharge Characteristics (Amperes, 25 $^\circ$ C)							Constant Power Discharge Characteristics(Watts,25°C)								
F.V/Time	5min	10min	30min	1h	3h	5h	10h	20h	5min	10min	30min	1h	3h	5h	10h	20h
5.40V	30.10	28.60	13.20	7.50	3.20	2.10	1.20	0.60	190.30	126.00	53.50	32.40	17.10	11.30	6.36	3.65
5.25V	33.60	30.00	13.50	7.70	3.20	2.10	1.20	0.60	205.20	135.50	57.10	34.20	17.60	11.70	6.50	3.68
5.10V	38.40	30.40	13.90	7.90	3.30	2.20	1.20	0.60	220.90	145.00	60.80	36.00	18.00	12.20	6.56	3.70
4.80V	42.10	32.00	14.50	8.20	3.30	2.20	1.20	0.60	252.00	164.20	67.50	39.60	18.90	12.60	6.56	3.75

