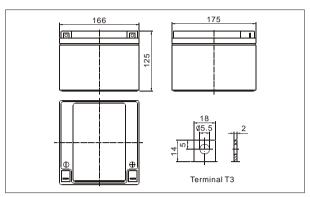
TC12-24-D

### 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

**AUCHAU** 

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	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 -

- · Electric powered vehicles
- · Golf cars and buggies
- · PDA equipment as laptop computer,
- · Camera, phone sets, medical sets
- · Power tools, Lawn mowers, vacuum cleaners
- · Electric Powered Toys
- · Wheel Chairs

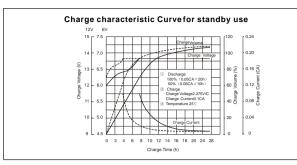
## Specifications

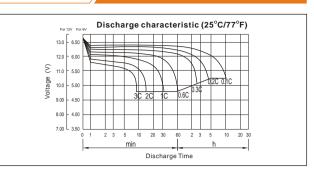
Nominal	Voltage	12V			
Capacity (2	20 hr 25℃)	24Ah			
Desig	n Life	5 Years			
	Length	166 mm (6.54 inch)			
Dimensions	Width	175 mm (6.89 inch)			
Dimensions	Height	125 mm (4.92 inch)			
	Total Height	125mm (4.92 inch)			
Approx	.Weight	8.20Kg			
	20 hr rate	24Ah			
Capacity	10 hr rate	22.32Ah			
<b>25℃(77</b> °F)	3 hr rate	20.40Ah			
	1 hr rate	14.4Ah			
	sistance (Full ry at 25℃(77℉)	<b>12 m</b> Ω			

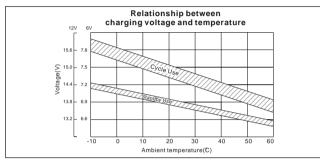
Capacity	40℃	102%			
affected	25℃	100%			
by Temperature	0℃	85%			
(20hr)	-15℃	65%			
Calf Diagharas	3 month	Remaining capacity: 91%			
Self-Discharge at 25℃	6 month	Remaining capacity: 829			
4.200	12 month	Remaining capacity: 65°			
Normal opera	ting temperature	25℃ ±3℃(77℉ ±5℉)			
Operating ten	nperature 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	9.6A			
Termina	almaterial	Copper			
Maximum Di	schage current	360A(5sec)			

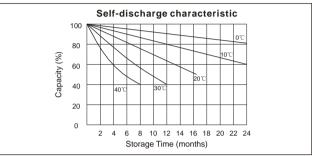


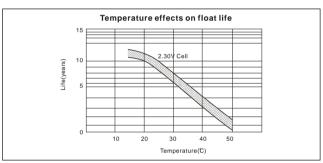
# TC12-24-D

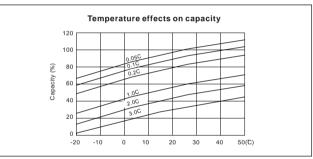


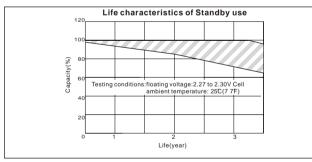


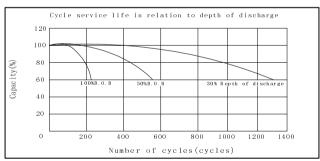












# Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	95.0	64.0	48.0	28.5	16.0	6.74	4.47	2.52	1.24
1.65V	90.1	60.9	45.9	27.4	15.4	6.53	4.36	2.47	1.23
1.70V	84.9	57.8	43.7	26.2	14.8	6.30	4.24	2.42	1.22
1.75V	79.7	54.5	41.1	24.9	14.2	6.05	4.10	2.37	1.20
1.80V	74.3	51.3	39.1	23.6	13.5	5.78	3.95	2.31	1.18

#### Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	185	121	90.0	55.0	40.0	31.7	19.6	13.4	8.54
1.65V	173	114	85.1	52.3	38.2	30.3	19.0	13.1	8.39
1.70V	161	107	80.2	49.4	36.3	28.9	18.3	12.5	8.22
1.75V	151	99.7	75.2	46.6	34.3	27.5	17.6	12.0	8.03
1.80V	139	92.7	70.3	43.7	32.3	26.0	16.9	11.4	7.83

