

ТС12-22-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 -

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Leaddioxide	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 tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- · Low self discharge.

Specifications

Nominal	Voltage	12V					
Capacity (2	20 hr 25℃)	22Ah					
Desig	n Life	5 Years					
	Length	181 mm (7.13 inch)					
Dimensione	Width	77 mm (3.03 inch)					
Dimensions	Height	167 mm (6.57 inch)					
	TotalHeight	167 mm (6.57 inch)					
Approx	.Weight	5.60Kg					
	20 hr rate	22Ah					
Capacity	10 hr rate	20.46Ah					
25℃(77° F)	3 hr rate	18.7Ah					
	1 hr rate	13.2Ah					
Internal Res charged Batter	sistance (Full ry at 25℃(77°F)	14 m Ω					

Capacity	40 ℃	102%					
affected	25 ℃	100%					
by Temperature	0 °C	85%					
(20hr)	-15 ℃	65%					
Calf Discharge	3 month	Remaining capacity: 91%					
at 25°C	6 month	Remaining capacity: 82%					
	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)	13.6 to13.8V					
Cyclic chargir	ng voltage(25℃)	14.5 to 14.9V					
Maximum cl	naging current	8.8A					
Termina	almaterial	Copper					
Maximum Di	schage current	330A(5sec)					

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



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	Constant Current Discharge Characteristics (Amperes, 25 $^\circ\!\!\!\!^\circ$)							Constant Power Discharge Characteristics(Watts,25 $^\circ$ C)								
F.V/Time	5min	10min	30min	1h	3h	5h	10h	20h	5min	10min	30min	1h	3h	5h	10h	20h
10.80V	55.18	52.43	24.20	13.75	5.87	3.85	2.20	1.10	697.8	462.00	196.17	118.80	62.70	41.43	23.32	13.38
10.50V	61.60	55.00	24.75	14.12	5.87	3.85	2.20	1.10	752.4	496.83	209.37	125.40	64.53	42.90	23.83	13.49
10.20V	70.40	55.73	25.48	14.48	6.05	4.03	2.20	1.10	810.0	531.67	222.93	132.00	66.00	44.73	24.05	13.57
9.60V	77.18	58.67	26.58	15.03	6.05	4.03	2.20	1.10	924.0	602.07	247.50	145.20	69.30	46.20	24.05	13.75



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