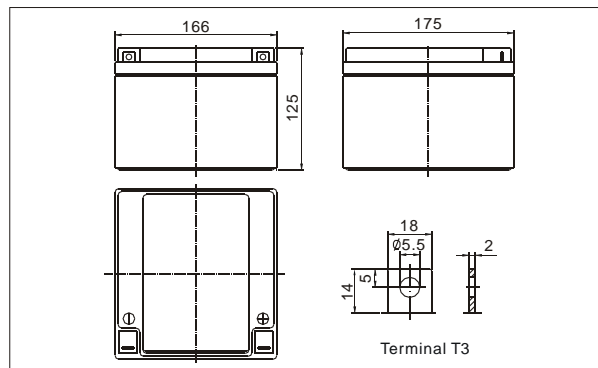


● **Outer dimensions (mm)**



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	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 tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

● **Application**

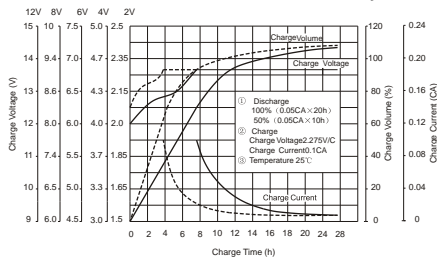
- Alarm System
- Medical Equipment
- Cable Television
- Control Equipment
- UPS
- Communication Equipment
- Toys
- Emergency power System
- Power Tools
- Security System

● **Specifications**

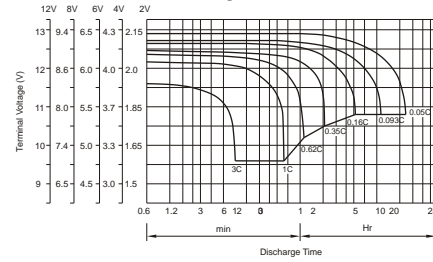
Nominal Voltage		12V
Capacity (20 hr 25°C)		26Ah
Design Life		5 Years
Dimensions	Length	166mm (6.54inch)
	Width	175mm (6.89 inch)
	Height	125 mm (4.92 inch)
	Total Height	125mm (4.92 inch)
Approx. Weight		8.40 Kg
Capacity 25°C (77°F)	20 hr rate	26Ah
	10 hr rate	24.18Ah
	5 hr rate	22.10Ah
	1 hr rate	15.60Ah
Internal Resistance (Full charged Battery at 25°C (77°F))		12m Ω

Capacity affected by Temperature (20hr)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge at 25°C	3 month	Remaining capacity: 91%
	6 month	Remaining capacity: 82%
	12 month	Remaining capacity: 65%
Normal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range		-15°C ~ 50°C (5 ~ 122°F)
Float charging voltage (25°C)		13.6 to 13.8V
Cyclic charging voltage (25°C)		14.5 to 14.9V
Maximum charging current		10.4A
Terminal material		Copper
Maximum Discharge current		390A (5sec)

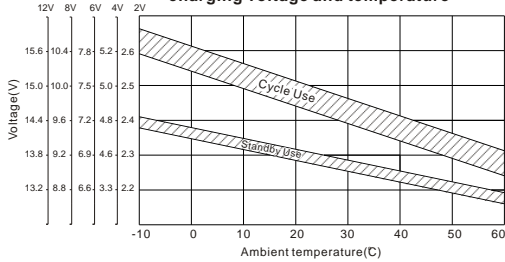
**Charge characteristic Curve for standby use**



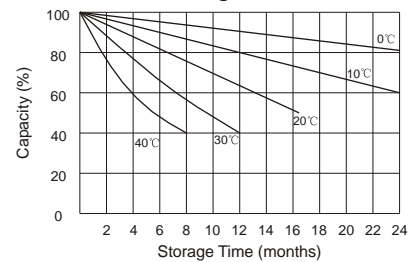
**Discharge characteristic Curve**



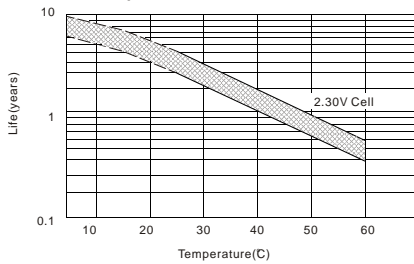
**Relationship between charging voltage and temperature**



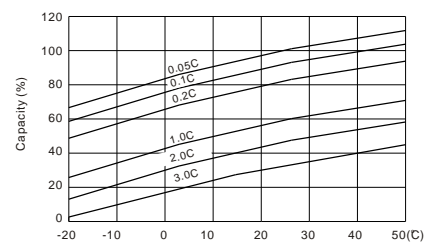
**Self-discharge characteristic**



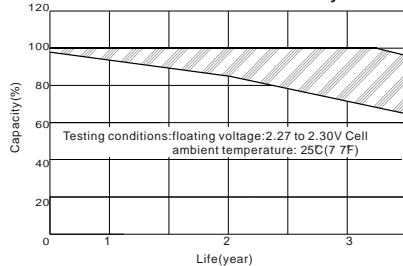
**Temperature effects on float life**



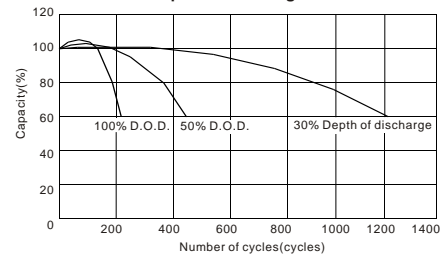
**Temperature effects on capacity**



**Life characteristics of Standby use**



**Cycle service life in relation to depth of discharge**



**Constant current discharge ratings-amperes at 25°C**

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	100	69.9	53.2	30.0	16.8	7.33	4.79	2.65	1.37
1.65V	94.9	66.8	50.7	28.8	16.5	7.10	4.66	2.60	1.33
1.70V	89.3	63.1	48.1	27.5	16.1	6.86	4.52	2.55	1.32
1.75V	83.7	59.3	45.5	26.2	15.4	6.56	4.39	2.52	1.30
1.80V	78.1	56.2	42.9	24.9	14.7	6.27	4.26	2.47	1.28

**Constant power discharge ratings-watts at 25°C**

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	185	129	99.0	56.1	31.6	13.86	9.10	5.06	2.62
1.65V	175	123	93.7	53.5	30.8	13.34	8.80	4.95	2.55
1.70V	163	115	88.4	50.9	29.9	12.83	8.50	4.82	2.50
1.75V	152	108	83.2	48.1	28.5	12.21	8.21	4.74	2.46
1.80V	140	101	77.6	45.2	26.8	11.53	7.88	4.59	2.39