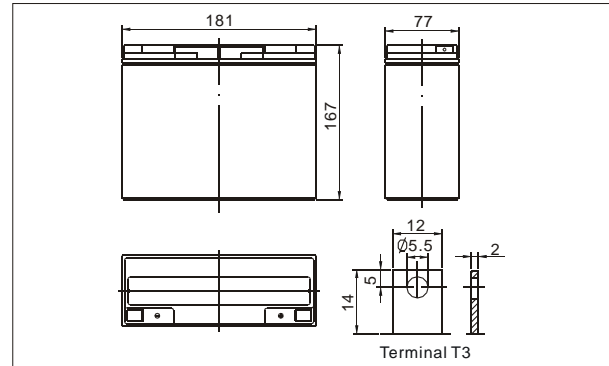




● Outer dimensions (mm)



The CHIWAY 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

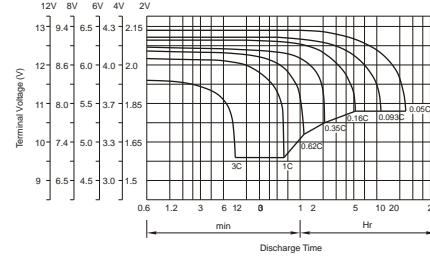
Nominal Voltage		12V
Capacity (20 hr 25°C)		22Ah
Design Life		3-5 Years
Dimensions	Length	181mm (7.13inch)
	Width	77mm (3.03 inch)
	Height	167 mm (6.57 inch)
	Total Height	167mm (6.57 inch)
Approx. Weight		6.20 Kg (13.67 lbs)
Capacity 25°C (77°F)	20 hr rate	22Ah
	10 hr rate	20.46Ah
	5 hr rate	18.70Ah
	1 hr rate	13.20Ah
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		8.8A
Terminal material		Copper
Maximum Discharge current		330A (5sec)

**Charge characteristic Curve for standby use**



**Discharge characteristic Curve**



**Relationship between charging voltage and temperature**



**Self-discharge characteristic**



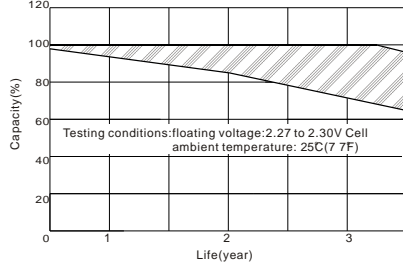
**Temperature effects on float life**



**Temperature effects on capacity**



**Life characteristics of Standby use**



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



**Constant Current Discharge Characteristics (Amperes, 25°C)**

**Constant Power Discharge Characteristics (Watts, 25°C)**

F.V/Time	Constant Current Discharge Characteristics (Amperes, 25°C)									Constant Power Discharge Characteristics (Watts, 25°C)							
	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

Packing Dimensions	327*194*202mm	Quantity Per Box	4pcs	Net weight Per Box	24.8kg	Gross weight Per Box	25.6kg	
Splint	Europe (1200*800mm)	Australia(1150*1100mm)		Standard(1100*950mm)		Nonstandard (1000*1000mm)		
20'DRY 8.5'	2.64k		2.72k		2.68k		3.00k	



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