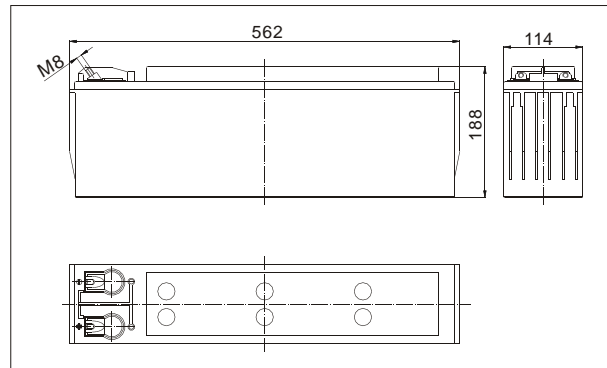




● **Outer dimensions (mm)**



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 (10 hr 25°C)		75Ah
Design Life		10 Years
Dimensions	Length	562mm (22.13 inch)
	Width	114 mm (4.49 inch)
	Height	188 mm (7.40 inch)
	Total Height	188 mm (7.40 inch)
Approx. Weight		19.5 Kg (43.0 lbs)
Capacity 25°C (77°F)	10 hr rate	75Ah
	3 hr rate	60Ah
	1 hr rate	48.75Ah
Internal Resistance (Full charged Battery at 25°C (77°F))		5.5 mΩ

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		22.5A
Terminal material		Copper
Maximum Discharge current		750A (5sec)

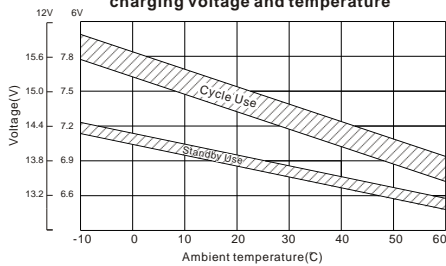
Charge characteristic Curve for standby use



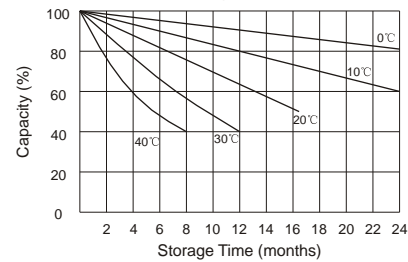
Discharge characteristic (25°C/77°F)



Relationship between charging voltage and temperature



Self-discharge characteristic



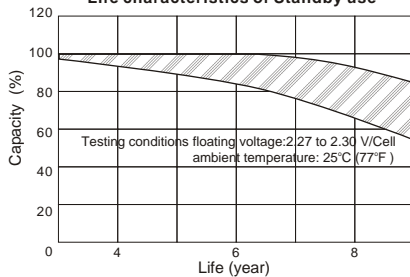
Temperature effects on float life



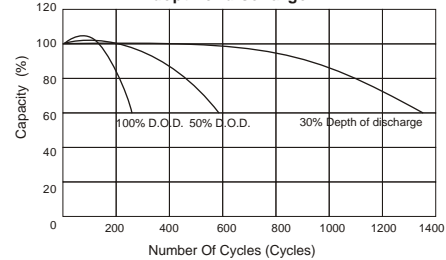
Temperature effects on capacity



Life characteristics of Standby use



Cycle service life in relation to depth of discharge



F.V/Time	Constant Current Discharge Characteristics(Amperes, 25°C)								Constant Power Discharge Characteristics(Watts, 25°C)							
	5min	10min	15min	30min	1h	3h	5h	10h	5min	10min	15min	30min	1h	3h	5h	10h
10.80V	199.5	143.2	108.0	66.0	46.5	18.75	12.60	7.50	2197.5	1545.5	1185.0	750.0	532.5	217.5	146.3	89.5
10.50V	210.0	148.9	123.8	73.5	47.3	19.50	13.08	7.58	2310.0	1595.5	1595.5	840.0	543.0	228.8	153.8	90.0
10.20V	225.0	153.4	131.9	81.0	48.0	19.88	13.35	7.65	2437.5	1645.5	1447.5	922.5	552.0	232.5	156.0	90.5
9.60V	262.5	160.2	146.3	90.0	48.8	20.25	13.35	7.73	2850.0	1731.8	1612.5	1035.0	559.5	236.3	157.5	90.9

Packing Dimensions	586*138*212mm	Quantity Per Box	1 pcs	Net weight Per Box	28.0kg	Gross weight Per Box	28.5 kg
Splint	Europe (1200*800mm)	Australia(1150*1100mm)	Standard(1100*950mm)	Nonstandard (1100*950mm)			
20'DRY 8.5'	440PCS		550PCS		540PCS		600PCS



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