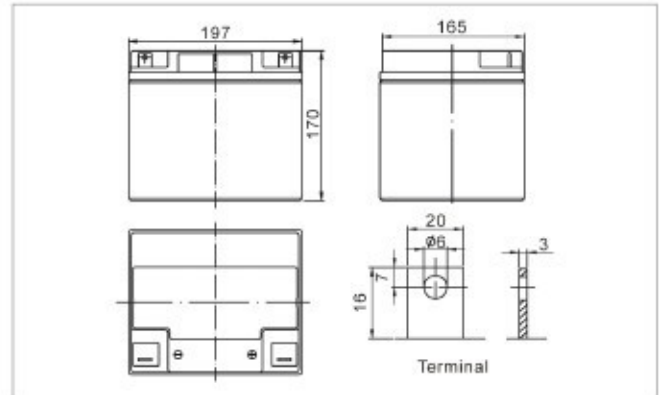


● Battery picture



● Outer dimensions (mm)



The URZZA 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.

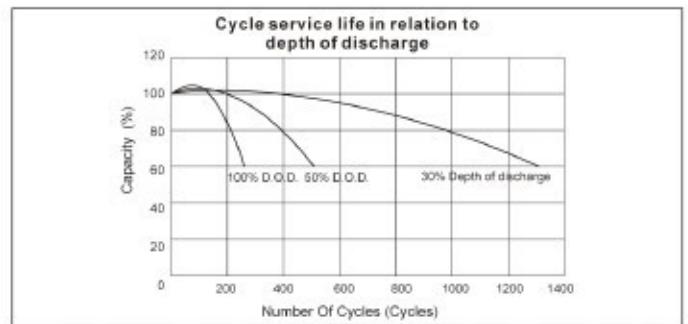
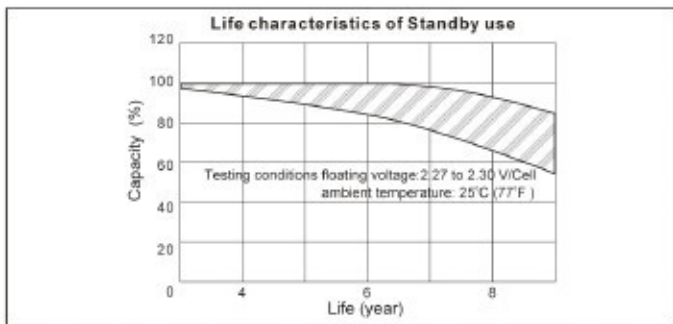
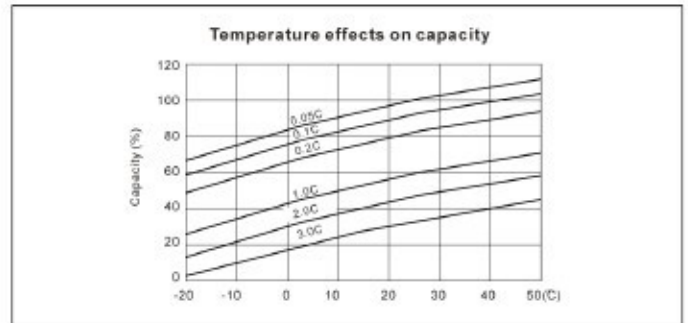
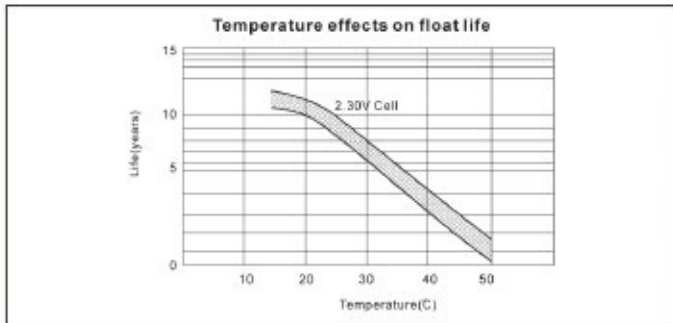
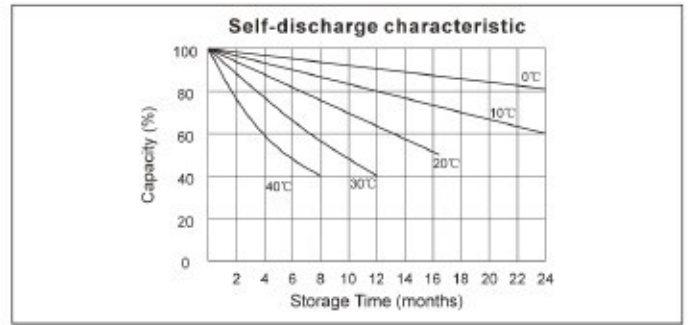
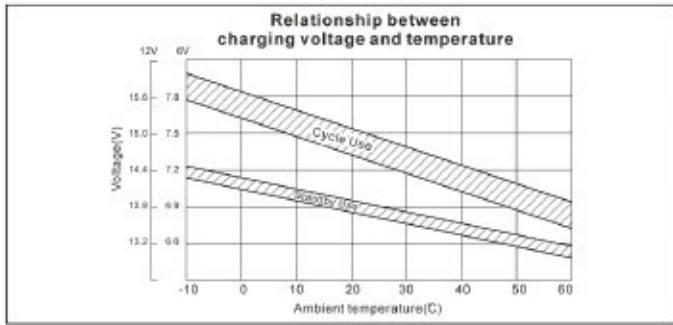
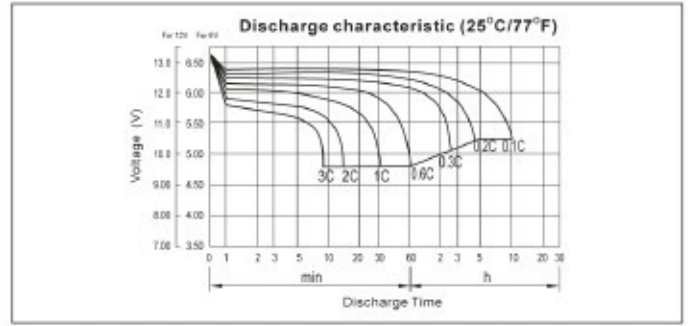
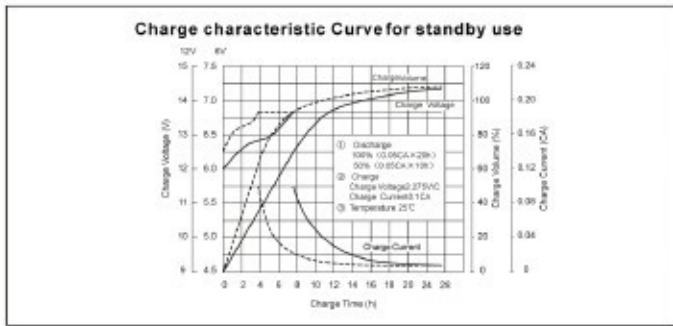
● Application

- 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)	40Ah	
Design Life	5 Years	
Dimensions	Length	198 mm (7.80 inch)
	Width	166 mm (6.54 inch)
	Height	170 mm (6.70 inch)
	Total Height	170 mm (6.70 inch)
Approx. Weight	12.8 Kg (28.2 lbs)	
Capacity 25°C (77°F)	10 hr rate	40Ah
	3 hr rate	32Ah
	1 hr rate	26Ah
Internal Resistance (Full charged Battery at 25°C (77°F))	9.5mΩ	

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)	13.60 to 13.80V	
Cyclic charging voltage (25°C)	14.50 to 14.90V	
Maximum charging current	12.0A	
Terminal material	Copper	
Maximum Discharge current	400A (5sec)	



Discharge Constant Current (Amperes at 77° F 25 °C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	130	92.0	72.0	42.0	25.0	10.2	7.00	4.14	2.18
1.65V	123	87.4	69.3	40.7	24.2	10.1	6.90	4.09	2.15
1.70V	118	82.7	66.5	39.1	23.3	10.0	6.85	4.05	2.12
1.75V	109	78.1	63.2	37.2	22.1	9.85	6.80	4.00	2.10
1.80V	100	71.0	58.0	34.9	20.8	9.71	6.70	3.95	2.07

Discharge Constant Power (watts at 77° F 25 °C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	232	155	113	69.4	54.2	44.5	28.5	19.3	13.7
1.65V	218	146	107	65.9	51.7	42.6	27.6	18.8	13.5
1.70V	203	137	101	62.3	49.1	40.7	26.7	18.3	13.2
1.75V	189	128	94.0	58.7	46.5	38.7	25.6	17.7	12.9
1.80V	175	119	88.1	55.1	43.8	36.6	24.5	17.1	12.6

(Note) The above characteristics data are average values.