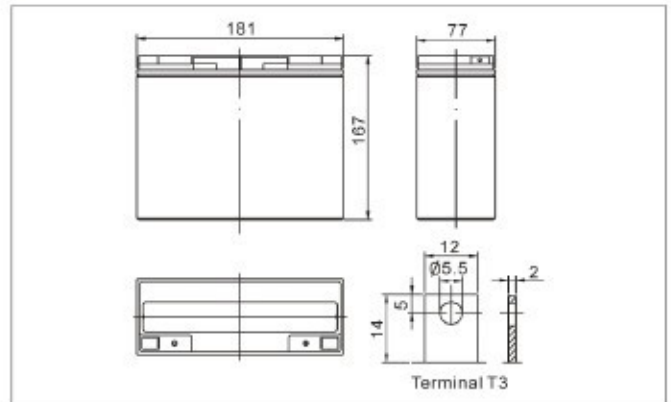


Battery picture



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.

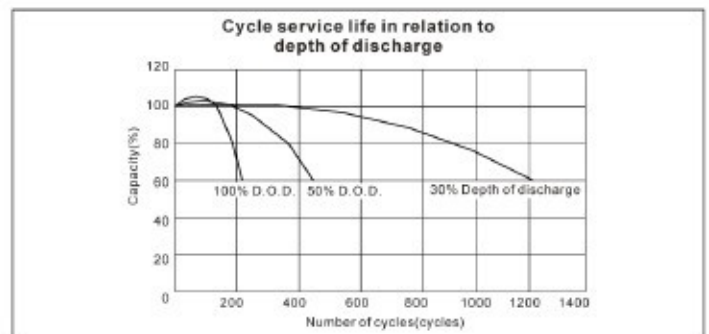
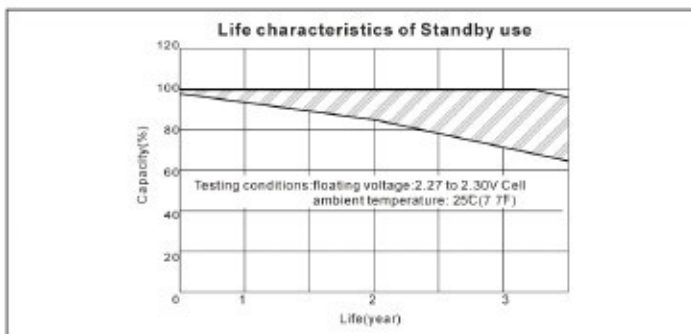
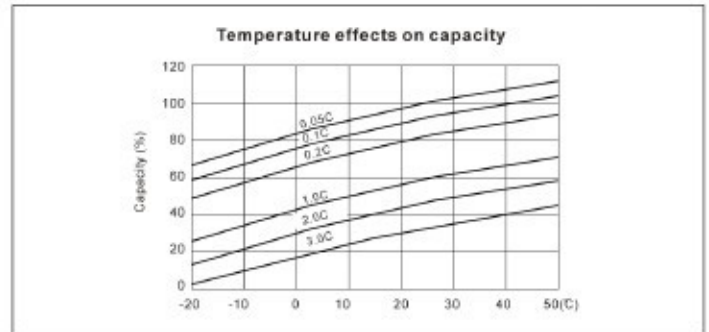
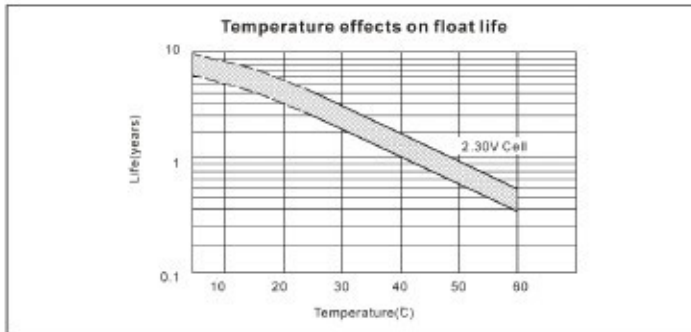
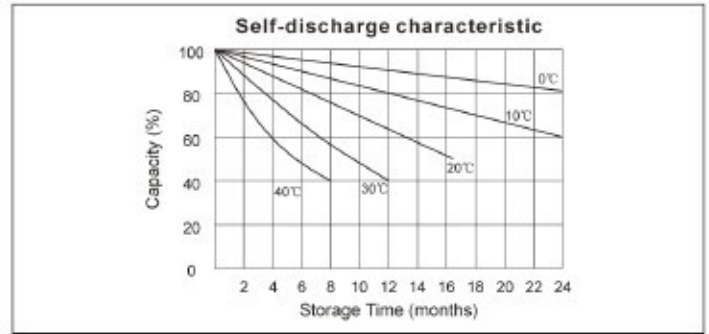
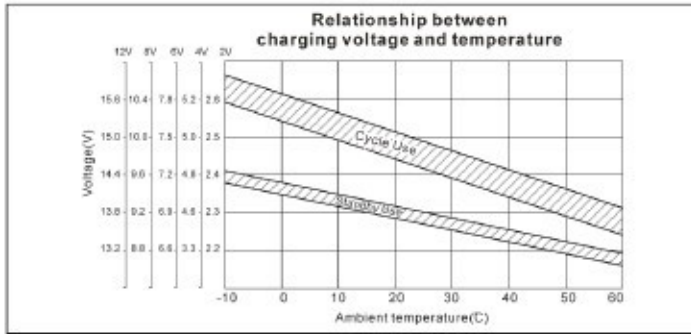
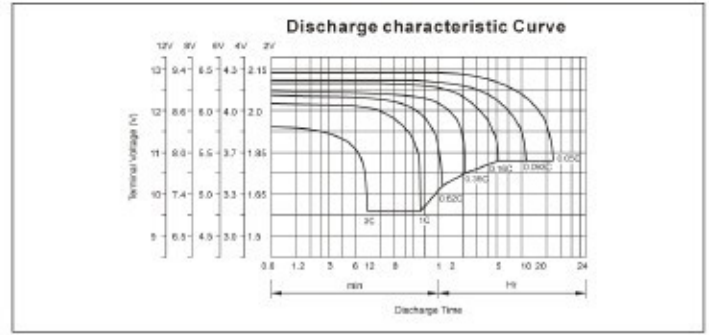
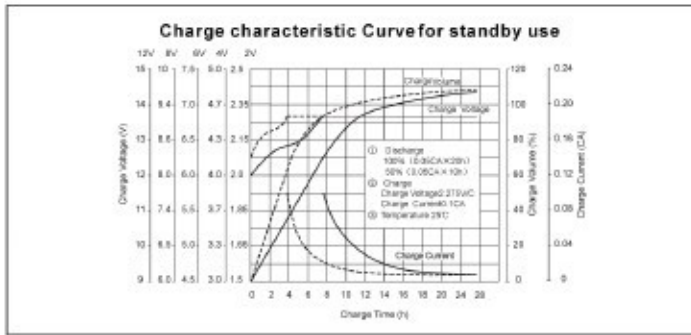
Application

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

Specifications

Nominal Voltage	12V	
Capacity (20 hr 25°C)	20Ah	
Design Life	3 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	5.90 Kg	
Capacity 25°C (77°F)	20 hr rate	20Ah
	10 hr rate	18.6Ah
	5 hr rate	17Ah
	1 hr rate	12Ah
Internal Resistance (Full charged Battery at 25°C (77°F))	14m 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	8.0A	
Terminal material	Copper	
Maximum Discharge current	300A (5sec)	



Discharge Constant Current (Amperes at 77°F25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	81.32	53.32	41.79	23.46	13.94	8.029	5.456	4.366	3.626	2.309	1.999	1.122
10.0V	78.39	51.99	40.45	23.16	13.56	7.867	5.355	4.305	3.565	2.300	1.979	1.081
10.2V	73.78	49.41	39.33	22.81	13.43	7.783	5.307	4.263	3.526	2.279	1.949	1.062
10.5V	66.32	46.20	37.10	22.18	13.17	7.682	5.260	4.222	3.483	2.259	1.939	1.030
10.8V	59.42	43.09	35.00	21.45	12.93	7.619	5.199	4.201	3.446	2.250	1.906	0.969
11.1V	51.99	39.50	32.29	20.63	12.58	7.312	5.097	4.164	3.411	2.232	1.877	0.953

Discharge Constant Power (Watts at 77°F25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	855.5	567.1	447.4	268.5	161.9	93.67	63.77	51.66	42.92	27.65	23.95	13.45
10.0V	833.3	555.3	441.0	265.8	159.5	92.86	63.65	51.54	42.70	27.55	23.73	12.97
10.2V	792.6	533.3	435.2	263.5	158.3	92.28	63.41	51.12	42.29	27.34	23.50	12.73
10.5V	723.4	511.4	412.5	258.1	156.2	91.54	63.15	50.65	41.79	27.11	23.26	12.37
10.8V	652.6	478.4	389.7	252.0	153.6	90.78	62.41	50.46	41.35	26.99	22.90	11.65
11.1V	575.5	445.4	367.1	245.1	150.8	87.64	61.19	49.96	40.96	26.80	22.56	11.47

(Note) The above characteristics data are average values.