

RELIABLE ENERGY

Using the latest advanced Oxygen Recombination Technology Yusuba are presenting a reliable battery with the optimum design of Sealed Lead Acid Battery. The YB Series adopts international leading technologies to ensure the batteries with long service life high reliability , safety and environmental friendly.

GENERAL FEATURES

- Very good recovery from deep discharge.
- Electrolyte suspension system
- Gas Recombination
- Multipurpose: Float or Cyclic use
- Usable in any orientation
- Computer designed lead, calcium tin alloy grid for high power density.
- 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.

DIMENSIONS

LENGTH	151±2mm (5.94inch)
WIDTH	98±2mm (3.86inch)
Container Height	95±2mm (3.74inch)
Total Height : (with terminals)	101±2mm (3.98inch)
Weight (Aprox.)	Approx 3.54Kg (7.80 lbs)

BATTERY CONSTRUCTION

Component	Positive Plate	Negative Plate	Safety Valve	Container	Cover
Raw material	Lead Dioxide	Lead	Rubber	ABS	ABS

Terminal	Separator	Electrolyte	Terminal Type	Layout	
Copper	Fiberglass	Sulfuric Acid	Threaded M8/ Flag M8	Positive Right	

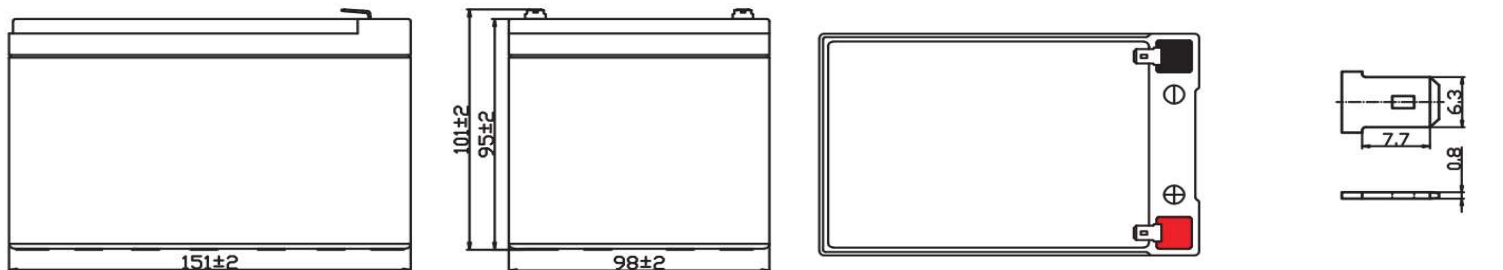


GENERAL FEATURES

- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency lighting
- Emergency backup power supply
- Generators starting
- Railway signal
- DC power supply
- Communication power supply
- Alarm and security system

STANDARDS

- IEC 60896-21/22:2004
- JIS C8702-1/2:2009
- Eurobat guide
- installation compliant with EN50272-2



Electrical Specifications

	Nominal Voltage	12V
	Capacity 20 (HR)	12 AH
Rated Capacity	12 AH/0.60A	(20hr, 1.75V/cell, 25°C / 77°F)
	11.2 AH/1.12A	(10hr, 1.75V/cell, 25°C / 77°F)
	10.50 AH/2.10A	(5hr, 1.75V/cell, 25°C / 77°F)
	9.60 AH/3.20A	(3hr, 1.75V/cell, 25°C / 77°F)
	8.00 AH/8.00A	(1hr, 1.65V/cell, 25°C / 77°F)
Internal Resistance	Approx 15mΩ	Fully charged battery at 25°C (77°F)
Discharge Characteristics		
	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)
		Charge: 0 ~ 40°C (5 ~ 104°F)
		Storage: -15 ~ 40°C (5 ~ 104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 60A. Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient - 30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient - 20mV/°C
	Capacity affected by Temperature	40°C (104°F) 103%
		25°C (77°F) 100%
		0°C (32°F) 86%
Design Floating Life at 20°C	5 Years	
Self Discharge	Batteries may be stored for up to 6 months at higher temperatures the time interval will be shorter.	

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

F.V/Time	5 min	10 min	15 min	30 min	1h	2h	3h	5h	10h	20h
1.85V/cell	40.8	25.2	20.4	12.7	7.75	4.00	3.02	1.99	1.05	5.90
1.80V/cell	42.6	26.7	21.3	13.1	7.82	4.10	3.12	2.03	1.08	5.95
1.75V/cell	44.7	28.6	22.2	13.7	7.88	4.20	3.20	2.10	1.12	6.00
1.70V/cell	45.2	29.3	22.5	13.9	7.95	4.28	3.27	2.15	1.15	6.10
1.65V/cell	47.6	31.5	23.6	14.3	8.00	4.35	3.35	2.22	1.17	6.15

Constant Power Discharge (Watts/Cell) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	30 min	1h	2h	3h	5h	10h	20h
1.85V/cell	74,25	46,20	37,33	23,62	14,66	8,23	6,40	4,35	2,38	1,28
1.80V/cell	76,50	48,80	38,80	24,15	14,32	8,16	6,48	4,40	2,40	1,29
1.75V/cell	79,10	51,45	40,30	24,80	14,10	8,05	6,55	4,45	2,41	1,30
1.70V/cell	81,20	53,95	41,60	25,60	13,88	7,95	6,64	4,52	2,43	1,31
1.65V/cell	83,70	56,43	42,95	26,45	13,68	7,88	6,73	4,60	2,45	1,32



