YB200-2 Data Sheet

YB200-2



2VOLT SERIES SPECIAL FEATURES

- Floating & standby use:up to 15 years
- Up to 280 cycles at 100% DOD
- Up to 1200 cycles at 30% DOD

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.

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

DIMENSIONS

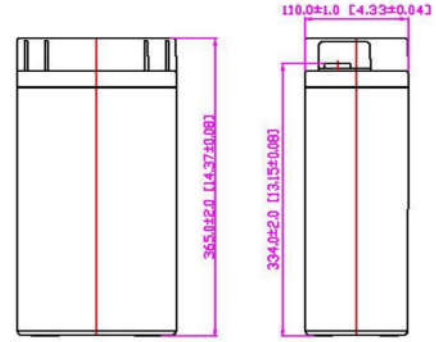
LENGTH	170 ±2mm
WIDTH	110 ±2mm
Container Height	334 ±2mm
Total Height : (with terminals)	365 ±2mm
Weight (Aprox.)	Approx 13.4 kg

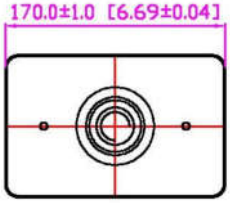
STANDARDS

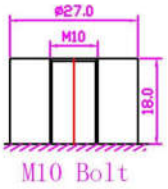
- IEC 60896-21/22:2004
- JIS C8702-1/2:2009
- Eurobat guide
- installation compliant with EN50272-2

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 M10**	**Positive Right**	







ISO9001 ISO14001 ISO18001 SA8000

YB200-2 Data Sheet

Electrical Specifications

	Nominal Voltage	2V
	Capacity 10 (HR)	200 AH
Rated Capacity	204.80 AH/10.24A	(20hr, 1.80V/cell, 25°C / 77°F)
	200 AH/20A	(10hr, 1.80V/cell, 25°C / 77°F)
	166.60 AH/33.320A	(5hr, 1.75V/cell, 25°C / 77°F)
	147.96 AH/49.32A	(3hr, 1.75V/cell, 25°C / 77°F)
	105.32 AH/105.32A	(1hr, 1.60V/cell, 25°C / 77°F)
Internal Resistance	Approx 7mΩ	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 50A. 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	15 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)

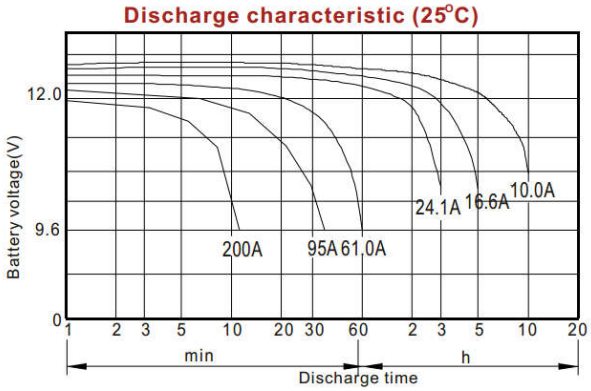
F.V/Time	10 min	15 min	30 min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	467.88	311.92	152.06	102.66	63.55	48.08	32.48	23.26	19.50	9.98
1.80V/cell	480.00	320.00	156.00	105.32	65.20	49.32	33.32	23.86	20.00	10.24
1.75V/cell	485.76	323.84	157.87	106.58	65.98	49.91	33.72	24.15	20.24	10.36
1.70V/cell	529.48	343.27	167.34	110.84	67.14	50.79	34.31	24.57	20.60	10.55
1.65V/cell	582.91	372.42	181.55	117.03	67.86	51.33	34.68	24.83	20.82	10.66
1.60V/cell	631.49	391.85	191.03	122.04	68.60	51.89	35.06	25.10	21.04	10.77

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

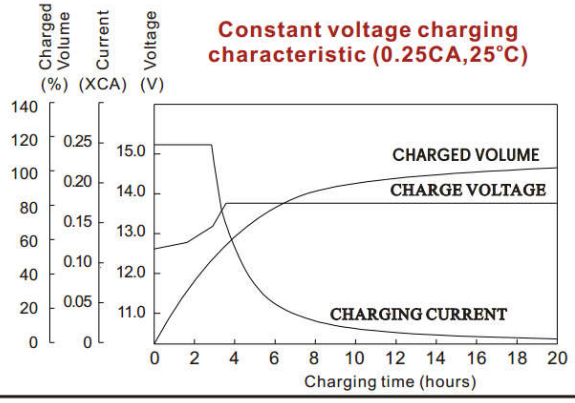
F.V/Time	10 min	15 min	30 min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	912.37	608.25	296.52	200.19	123.93	93.75	63.33	45.35	38.02	19.46
1.80V/cell	936.00	624.00	304.20	205.37	127.14	96.17	64.97	46.53	39.00	19.97
1.75V/cell	947.23	631.49	307.85	207.84	128.67	97.33	65.75	47.09	39.47	20.21
1.70V/cell	1032.5	669.38	326.32	216.13	130.93	99.04	66.91	47.91	40.16	20.56
1.65V/cell	1136.7	726.21	354.03	228.21	132.33	100.10	67.63	48.43	40.59	20.78
1.60V/cell	1231.4	764.10	372.50	237.98	133.76	101.18	68.36	48.95	41.03	21.01

ISO9001 CEPREI ISO14001 CEPREI ISO18001 SGS SA8000 Pb Pb

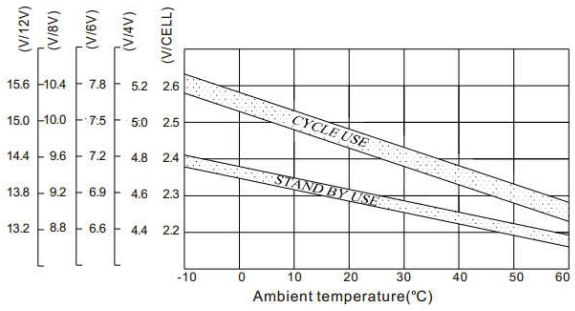
Discharge characteristic (25°C)



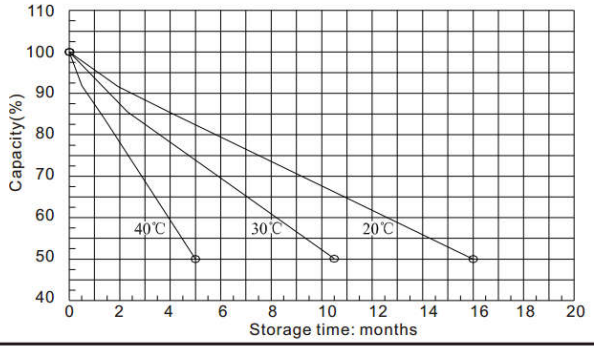
Constant voltage charging characteristic (0.25CA,25°C)



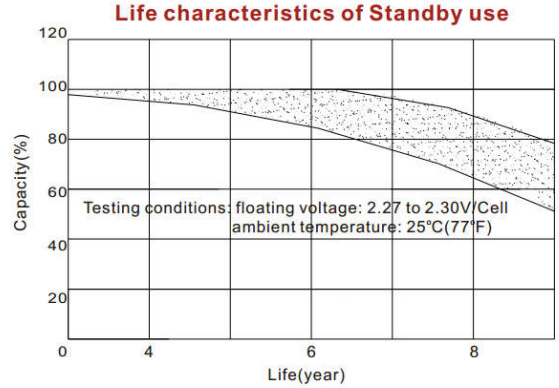
Relationship between charging voltage and temperature



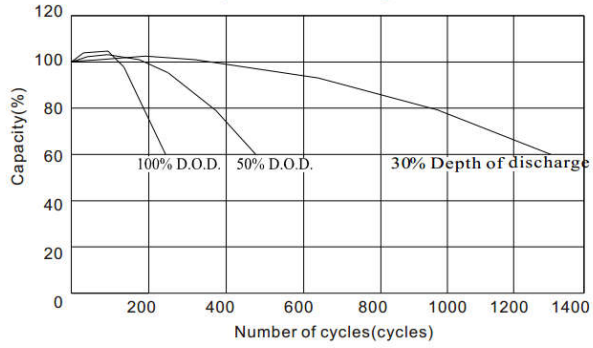
Self-discharge characteristic



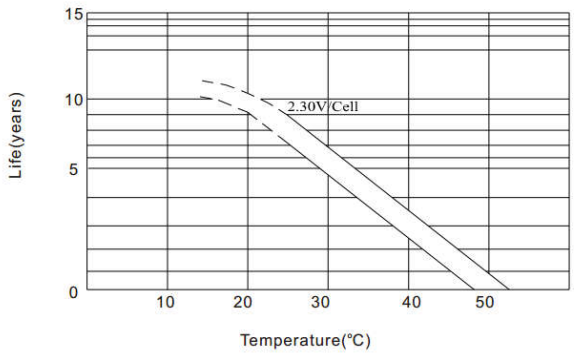
Life characteristics of Standby use



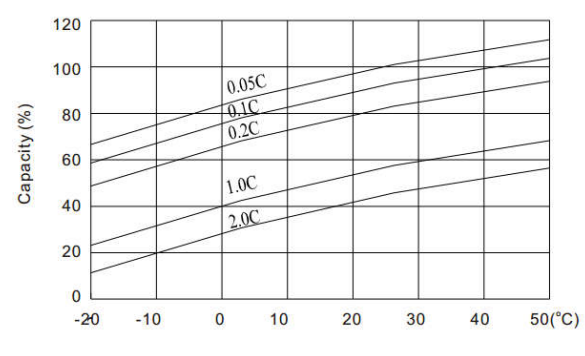
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



ISO9001 CEPREI ISO14001 CEPREI ISO18001 SGS SA8000 Pb Pb