

ZELUS

GEL Technology Battery

— SOLAR & PV

GBS 12/110

12V, 110Ah/C₁₀₀

FEATURES

- GBS delivers long cycle life and prolong life in elevated ambient temperatures.
- The generated heat can easy flow to the case walls because the whole volume of the cell is filled with gel.
- The immobilization of the electrolyte in the gel makes acid stratification impossible.
- Maintenance free(no water topping-up required).
- Low self-discharge rate, lower than 2% capacity loss per month.
- A small distribution of the special valve opening and closing pressure is important for a good (cycle) life time of the battery.

APPLICATIONS

- Solar power stations
- Telecommunications installations
- Traffic lights
- Street lightening
- Wind power



SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	110Ah @ 100 hour rate F.V.(1.80V/cell)
Approx. Weight	35.5Kg(78.26lbs.)
Terminals	B3 (Fitting M6 bolt & nut) I2 is optional
Internal Resistance	≤5.0m Ω (Fully Charged)
Max. Discharge Current	800 A (5 sec.)
Max. Charge Current	20.0 A
Operating Temperature Range	-20°C~55°C(-4°F~131°F)
Container Material	Standard: ABS(UL94 HB) GBS 12/110 Optional: Flame Retardant ABS(UL94 V-0) GBS 12/110FR

Certificate as below:



Compliance of the standards as below:

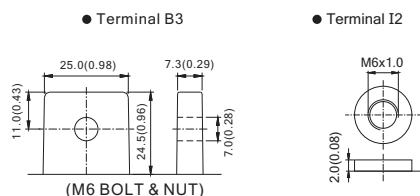
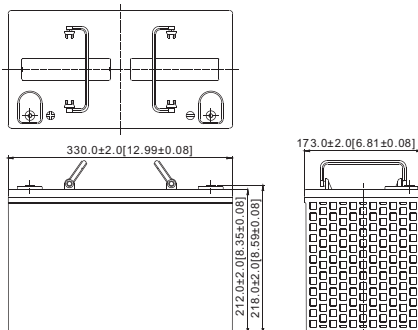
- IEC 60896-21/22
- JIS C 8704-2
- GB/T 19638.2

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

- **Length**
330±2.0 (12.99±0.08)
- **Width**
173±2.0 (6.81±0.08)
- **Container Height**
212±2.0 (8.35±0.08)
- **Total Height**
B3: 241±2.0 (9.49±0.08)
I2: 218±2.0 (8.59±0.08)



Terminal Hardware Initial Torque:
B3,I2(5.5Nm±5%)

Constant power discharge characteristics at 25 °C/77 °F

Unit: W

Discharge Time F.V.	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr	100 Hr	120 Hr
11.1V	675.7	285.7	197.0	110.9	58.86	13.11	11.03
10.8V	698.2	292.3	202.1	113.9	59.58	13.20	11.06
10.5V	710.0	294.5	204.2	114.0	60.04	13.36	11.20
10.2V	727.0	298.9	204.9	115.3	60.59	13.36	11.29
9.9V	731.1	299.7	205.3	115.7	60.62	13.49	11.31

Constant current discharge characteristics at 25 °C/77 °F

Unit: A

Discharge Time F.V.	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr	100 Hr	120 Hr
11.1V	56.58	23.89	16.53	9.20	4.92	1.09	0.91
10.8V	57.65	23.96	16.61	9.23	4.99	1.10	0.92
10.5V	59.15	24.33	16.88	9.44	5.04	1.11	0.93
10.2V	60.68	24.60	16.98	9.54	5.04	1.12	0.94
9.9V	61.13	24.84	17.07	9.57	5.05	1.12	0.94

All data and artworks shall be changed without prior notice, BB reserves the right to explain and update the information contained herein.

For operation, please refer to the instruction from technical manual. Trial A/3 REV. Apr. 2021

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