

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: PP(UL94 HB) GBS 12/110 Optional: Flame Retardant PP(UL94 V-0) GBS 12/110FR |

Certificate as below:



Compliance of the standards as below:

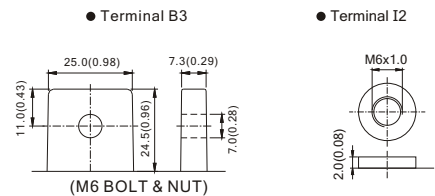
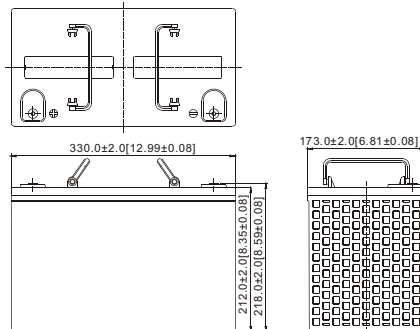
- IEC 60896-21/22
- JIS C 8704-2
- GB/T 19638.2

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

| F.V. \ Discharge Time | 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

| F.V. \ Discharge Time | 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 hereinto.