

ZELUS

GEL Technology Battery

— SOLAR & PV

GBS 12/225

12V, 225Ah/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	225Ah @ 100 hour rate F.V.(1.80V/cell)
Approx. Weight	66.5Kg(146.7lbs.)
Terminals	B9 (Fitting M8 bolt & nut) I3 is optional
Internal Resistance	≤3.5m Ω (Fully Charged)
Max. Discharge Current	800 A (5 sec.)
Max. Charge Current	45.0 A
Operating Temperature Range	-20°C~55°C(-4°F~131°F)
Container Material	Standard: ABS(UL94 HB) GBS 12/225 Optional: Flame Retardant ABS(UL94 V-0) GBS 12/225FR



MH19884



- IEC 61427
- GB/T 22473.1

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

522±2.0 (20.55±0.08)

Width

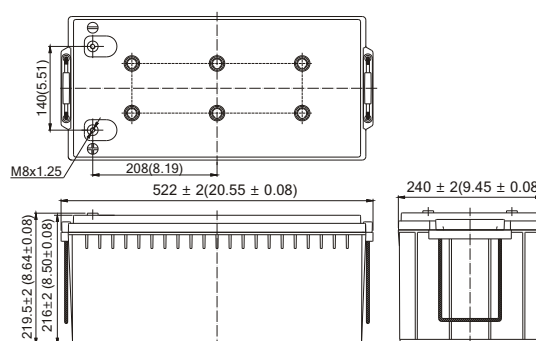
240±2.0 (9.45±0.08)

Container Height

216±2.0 (8.50±0.08)

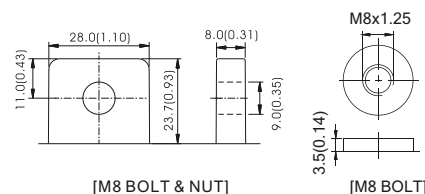
Total Height

219.5±2.0 (8.64±0.08)



Terminal B9

Terminal I3



Terminal Hardware Initial Torque: B9,I3(10.0Nm±5%)

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

Unit: W

F.V. (V/cell)	Discharge Time	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr	100 Hr	120 Hr
1.85V		1380	600.0	438.0	231.0	123.6	26.82	22.50
1.80V		1419	613.5	450.0	237.6	124.1	27.00	22.56
1.75V		1455	621.0	453.0	240.9	127.1	27.18	22.68
1.70V		1485	627.0	455.7	242.1	127.2	27.30	22.77
1.65V		1494	630.0	456.6	243.0	127.3	27.40	23.00

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

Unit: A

F.V. (V/cell)	Discharge Time	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr	100 Hr	120 Hr
1.85V		115.5	50.13	36.75	19.17	10.33	2.22	1.86
1.80V		117.6	50.25	36.93	19.38	10.47	2.25	1.88
1.75V		120.9	51.03	37.56	19.80	10.58	2.26	1.90
1.70V		123.9	51.60	37.77	20.04	10.60	2.27	1.91
1.65V		124.8	52.17	37.98	20.10	10.62	2.28	1.93

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

For operation, please refer to the instruction from technical manual.

Trial B/1 REV. May. 2025

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