

ZELUS

GEL Technology Battery

SOLAR & PV

GBS 12/43.5

12V, 43.5Ah/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	43.5Ah @ 100 hour rate F.V.(1.80V/cell)
Approx. Weight	16.1Kg(52.91lbs.)
Terminals	I2
Internal Resistance	8.0mΩ (Fully Charged)
Max. Discharge Current	640 A (5 sec.)
Max. Charge Current	8.7 A
Operating Temperature Range	-20°C~55°C(-4°F~131°F)
Container Material	Standard: ABS(UL94 HB) GBS 12/43.5 Optional: Flame Retardant ABS(UL94 V-0) GBS 12/43.5FR

MH19884



- IEC 61427
- GB/T 22473.1

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

197±1.5 (7.76±0.06)

Width

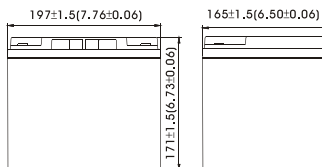
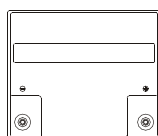
165±1.5 (6.50±0.06)

Container Height

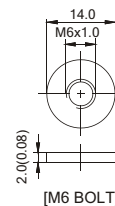
171±1.5 (6.73±0.06)

Total Height

171±1.5 (6.73±0.06)



- Terminal I2



Terminal Hardware Initial Torque: I2(5.5Nm±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		259	113.9	86.18	44.0	23.26	5.20	4.36
1.80V		269	115.9	88.34	45.5	24.93	5.33	4.47
1.75V		278	118.7	89.76	46.4	24.40	5.41	4.54
1.70V		284	120.7	90.55	46.9	24.69	5.45	4.57
1.65V		287	121.7	90.60	47.2	24.77	5.47	4.59

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		21.1	9.43	7.15	3.665	1.951	0.434	0.364
1.80V		22.7	9.76	7.36	3.777	2.004	0.444	0.372
1.75V		23.4	10.01	7.49	3.835	2.040	0.451	0.378
1.70V		24.2	10.18	7.55	3.876	2.061	0.455	0.381
1.65V		24.5	10.20	7.55	3.898	2.067	0.456	0.382

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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