

ZELUS

GEL Technology Battery

SOLAR & PV

GBS 12/33

12V, 33Ah/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



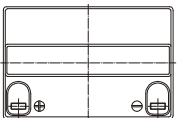
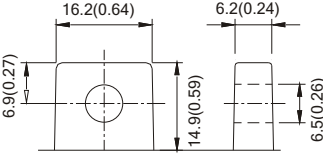
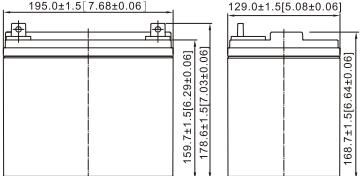
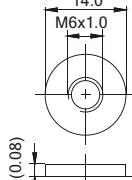
SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	33Ah @ 100 hour rate F.V.(1.80V/cell)
Approx. Weight	11300g(24.91lbs.)
Terminals	B7(Fitting M6 bolt & nut) I2 is optional
Internal Resistance	≤9mΩ (Fully Charged)
Max. Discharge Current	450 A (5 sec.)
Max. Charge Current	6.6 A
Operating Temperature Range	-20°C~55°C(-4°F~131°F)
Container Material	Standard: ABS(UL94 HB) GBS 12/33 Optional: Flame Retardant ABS(UL94 V-0) GBS 12/33FR

®
MH19884



- IEC 61427
- GB/T 22473.1

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
■ Length 195±1.5 (7.68±0.06)		● Terminal B7  [M6 BOLT & NUT]
■ Width 129±1.5 (5.08±0.06)		● Terminal I2  [M6 BOLT]
■ Container Height 168.7±1.5 (6.64±0.06)		
■ Total Height 178.6±1.5 (7.03±0.06)		
Terminal Hardware Initial Torque: B7,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		192	84.2	60.4	33.1	17.45	3.82	3.20
1.80V		202	86.7	61.8	33.9	17.87	3.95	3.31
1.75V		208	88.4	62.8	34.4	18.14	3.97	3.34
1.70V		212	89.5	63.3	34.7	18.29	4.00	3.36
1.65V		215	90.2	63.5	34.8	18.34	4.02	3.37

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		16.1	7.05	5.06	2.77	1.457	0.319	0.267
1.80V		16.9	7.26	5.17	2.84	1.492	0.330	0.276
1.75V		17.4	7.40	5.25	2.88	1.515	0.332	0.279
1.70V		17.8	7.49	5.30	2.90	1.527	0.334	0.280
1.65V		18.0	7.55	5.32	2.91	1.532	0.335	0.281

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.

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