

# ZELUS

## GEL Technology Battery — SOLAR & PV

# GBS 12/33

## 12V, 33Ah/C<sub>100</sub>

### 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.

### APPLICATION

- 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( UL 94-HB) GBS 12/33 Optional: Flame Retardant ABS(UL 94-V0) GBS 12/33FR



- IEC 61427-2005
- GB/T 22473-2008

### DIMENSION(mm/inch)

### OUTER DIMENSIONS

### TERMINAL TYPE

#### Length

195±1.5 (7.68±0.06)

#### Width

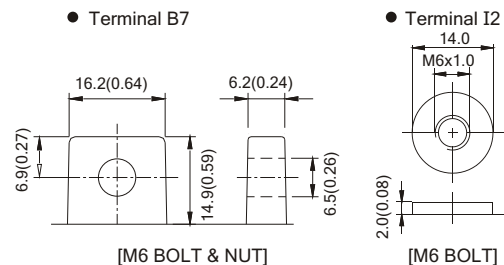
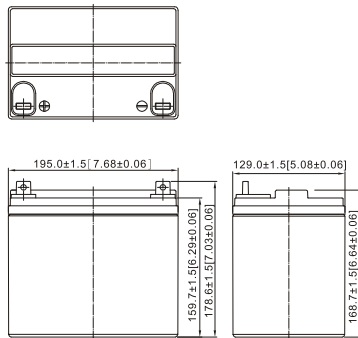
129±1.5 (5.08±0.06)

#### 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

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