

ZELUS

GEL Technology Battery — SOLAR & PV

GBS 12/120

12V, 120Ah/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.

APPLICATION

- Solar power stations
- Telecommunications installations
- Traffic lights
- Street lightening
- Wind power

SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	120Ah @ 100 hour rate F.V.(1.80V/cell)
Approx. Weight	39Kg(85.98lbs.)
Terminals	I2
Internal Resistance	≤5mΩ (Fully Charged)
Max. Discharge Current	800 A (5 sec.)
Max. Charge Current	24 A
Operating Temperature Range	-20°C~55°C(-4°F~131°F)
Container Material	Standard: ABS(UL 94-HB) GBS 12/120 Optional: Flame Retardant ABS(UL 94-V0) GBS 12/120FR



WSE ISO9001	UL MH19884
WSE ISO14001	CE C4M20310-2474-E-16
WSE OHSMS	

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

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<ul style="list-style-type: none"> ■ Length 407±2.0 (16.02±0.08) ■ Width 173±2.0 (6.81±0.08) ■ Container Height 210±2.0 (8.27±0.08) ■ Total Height 239±2.0 (9.41±0.08) 		<ul style="list-style-type: none"> ● Terminal I2 <p>Terminal Hardware Initial Torque: I2(5.5Nm±5%)</p>

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	726	322.3	228.9	121.4	63.94	14.06	11.79
1.80V	758	331.1	233.5	124.4	65.46	14.40	12.08
1.75V	781	337.7	237.0	126.3	66.46	14.62	12.27
1.70V	797	341.8	239.1	127.3	66.98	14.74	12.36
1.65V	807	344.5	239.9	127.7	67.18	14.77	12.40

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	61.47	26.94	19.07	10.12	5.325	1.171	0.983
1.80V	64.62	27.73	19.52	10.37	5.455	1.200	1.007
1.75V	66.57	28.28	19.81	10.52	5.538	1.218	1.022
1.70V	67.97	28.62	19.98	10.61	5.582	1.228	1.030
1.65V	68.78	28.85	20.05	10.64	5.598	1.232	1.033

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 A/1 REV. Mar. 2014

Powered by  B.B. Battery Co., Ltd.