

## Front Terminal GEL Telecom Battery

## FB12-160G

CSBattery FB12G series front access telecom gel battery is upgrade from FB12 agm series especially for tele-communication applications. The FB12 GEL type front terminal battery comes with longer lasting design life and front access connections for fast, easy installation and maintenance, and is ideally suitable for telecom outdoor equipment, renewable energy systems and other severe environments.

12V  
160Ah

GEL  
Technology

Telecom  
Battery



### COMPLIED STANDARDS

IEC 60896-21/22    JIS C8704  
YD/T1360            BS6290 part4  
GB/T 19638        CE

### Applications

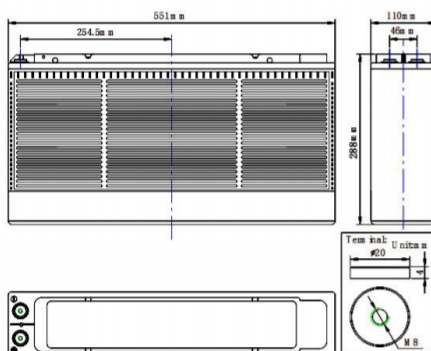
- Telecom Control Equipment
- UPS systems, Inverter
- Power Equipment
- Solar & Wind
- Emergency Power Systems

### General Features

- ✓ Advanced nano gel electrolyte and longer floating service life over 12years;
- ✓ Front access terminal with standard width for 19" and 23" ETSI racks;
- ✓ High rate discharge performance;
- ✓ Low self discharge <3%.

### Dimensions & Weight

Length(mm)	551±1
Width(mm)	110±1
Height(mm)	288±1
Total Height(mm)	288±1
Weight(kg)	45±3%



### Technical Specifications

Nominal Voltage		12V (6 cells per unit)
Design Floating Life @25°C		12 Years
Nominal Capacity @25°C (10 hour rate@16.0A,10.8V)		160Ah
Capacity @25°C	20hour rate (8.48A,10.8V)	169.6Ah
	5 hour rate (28.2A,10.5V)	141.0Ah
	1 hour rate (102.1A,9.6V)	102.1Ah
Internal Resistance	Full Charged Battery@25°C	≤3.4mΩ
Ambient Temperature	Discharge	-15°C~60°C
	Charge	-15°C~60°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		960A(5s)
Capacity affected by Temperature (10 hr Capacity )	40°C	108%
	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 40A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 40A Voltage 14.4-14.9V

### Battery Discharge Table

#### Discharge Constant Current per Cell (Amperes at 25°C)

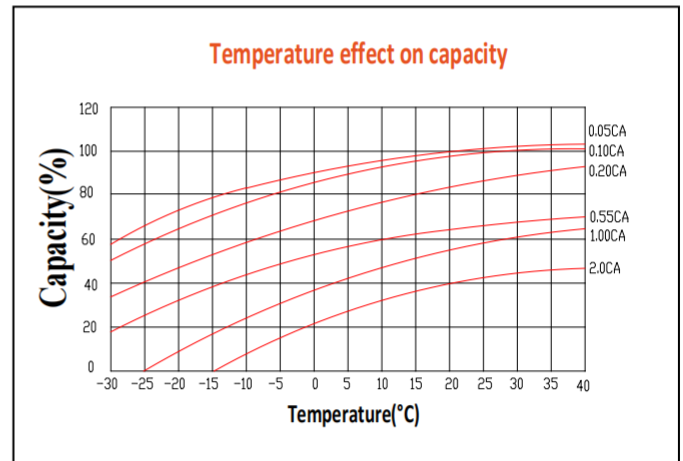
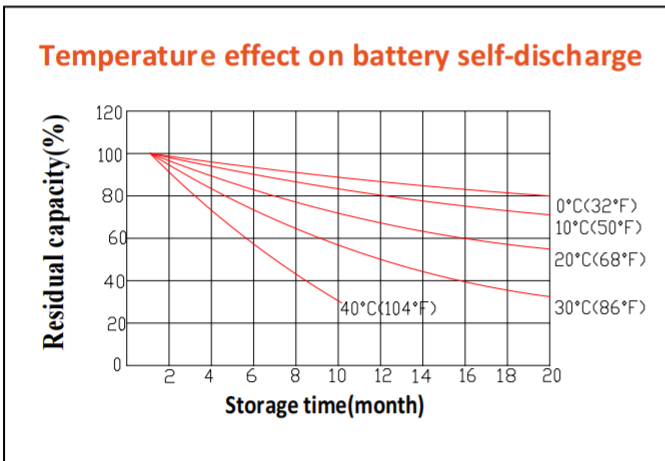
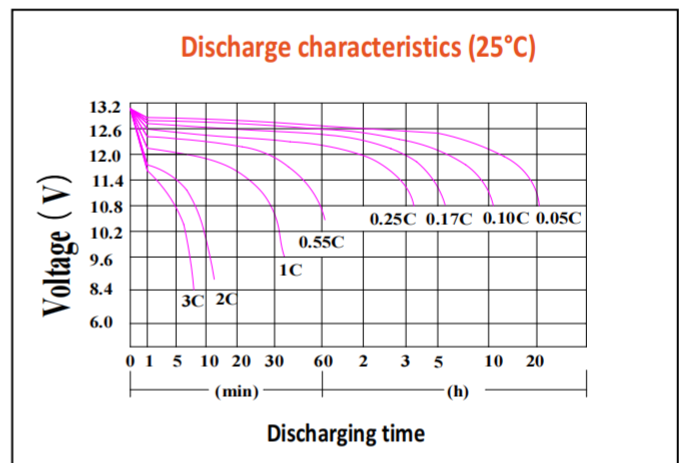
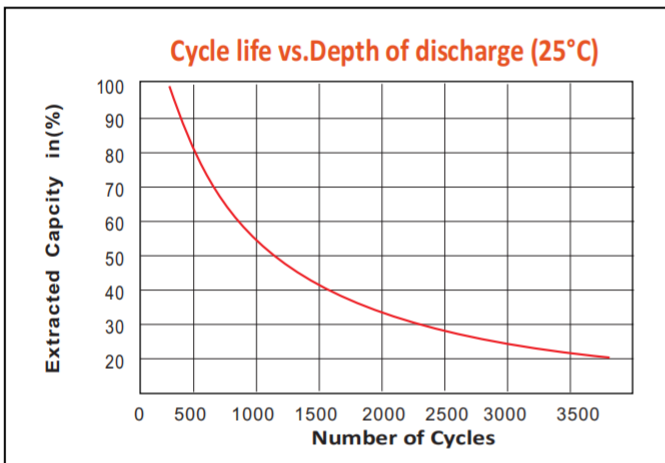
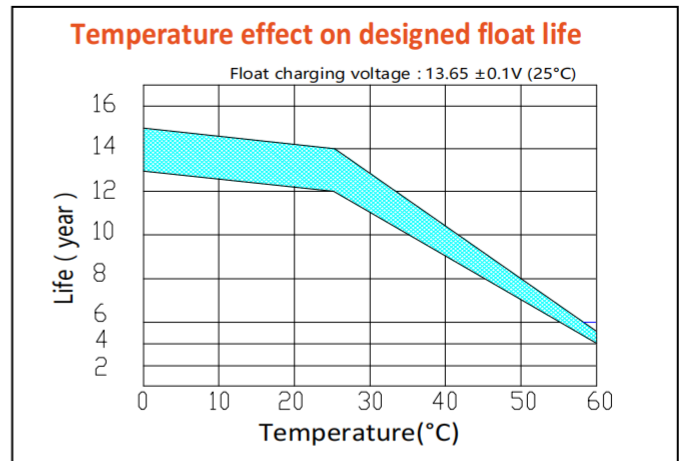
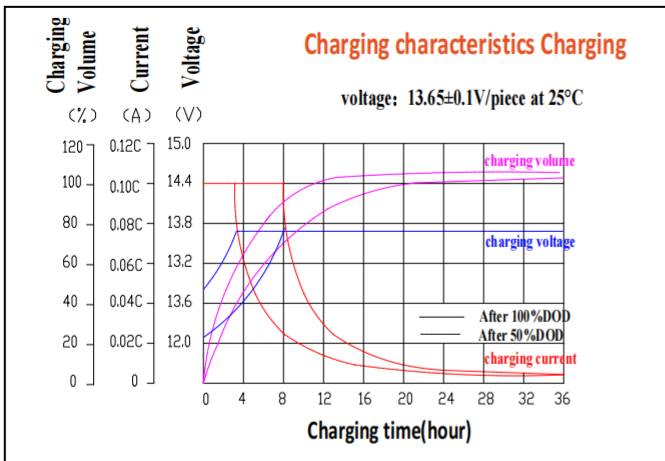
F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	372.0	288.8	173.3	128.8	102.1	60.0	44.2	29.8	20.3	16.8	8.88
1.65V	344.2	272.8	167.5	123.8	99.0	58.1	42.7	29.3	20.2	16.5	8.80
1.70V	319.2	256.2	162.9	119.4	95.2	56.5	41.6	28.6	19.8	16.3	8.70
1.75V	298.1	240.0	154.4	114.1	91.4	55.0	40.6	28.2	19.5	16.2	8.62
1.80V	268.2	225.1	149.0	109.9	88.2	53.0	39.4	27.5	19.2	16.0	8.48

#### Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	669.1	552.2	337.8	244.6	195.8	113.8	84.3	57.4	39.7	32.8	17.1
1.65V	626.2	528.3	323.0	236.3	190.6	110.7	82.1	56.5	39.4	32.5	17.0
1.70V	586.4	492.3	309.8	228.8	184.0	108.2	80.2	55.7	38.9	32.2	16.8
1.75V	551.8	461.9	294.9	219.7	177.3	105.6	78.6	54.9	38.4	31.8	16.6
1.80V	499.5	433.6	282.9	212.3	171.5	102.1	76.3	53.8	37.9	31.7	16.5

**Note:** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

### Performance Characteristics



Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistance ABS (UL94-V0 optional)	Flame Si-Rubber and aging resistance	Female Copper Insert M6 (torque: 3~4N.m)	Advanced AGM separator for high pressure cell design	Silicon Gel import from Germany Evonik	Two layers epoxy resin seal

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