

FGB 12-100

Deep Cycle Gel Battery

CONSTRUCTION

- Positive plate : Lead Dioxide
- Negative plate : Lead
- Container : A.B.S (Acrylonitrile Butadiene Styrene)
- Cover : A.B.S (Acrylonitrile Butadiene Styrene)
- Sealant : Epoxy
- Valve : Polypropylene with rubber valve
- Terminal : Bolt M8
- Separator : Microporous duro plastic with glass matt
- Electrolyte : Gel type

SPECIFICATIONS

Item	FGB 12-100
Cell per unit	6 cell
Nominal voltage	12V
Rated capacity (10Hr -rate to 1.8 V per cell @ 25°C)	100 AH
Dimensions L x W x H x TH (mm)	284 x 272 x 209 x 213
Typical weight	Approx 34.5 Kg (± 2%)
Max. Discharge current	200 A (10 minute)
Temperature range	Operation (maximum) -10 - 55 °C Operation (recommended) 15 - 25 °C Storage -20 - 40 °C
Float charging voltage (average @ 25°C)	13.8 VDC/Unit
Maximum charging current limit	0.2 x 10 Hr Capacity rate
Equalization and cycle service (average @ 25 °C)	14.4 VDC/Unit
Self discharge	FGB batteries can be stored for more than 6 months @ 25 °C Self discharge ratio less than 3% per month @ 25 °C. Please change batteries before using.
Terminal	Bolt M8
Container material	A.B.S (Acrylonitrile Butadiene Styrene)

FGB 12-100 is a Gel battery specially designed for Telecom use with 10+ years design life. The battery can be installed in any location, and guarantees high security and reliability.

The positive and negative grids are cast a Calcium - Tin lead alloy to reduce grid growth and corrosion. The active material is manufactured from high purity lead to minimize the negative effect of impulse. Separator is manufactured and utilized with the latest technology, the base material is microporous duro plastic separator with glass matt, resulting in very good resistance to vibration and mechanical shock, high temperature stability and low electrical resistance. The integrity of the battery will be maintained under extreme condition.

Constant current Discharge Characteristics: A (25°C)

F.V/Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
10.8 V	53.0	32.5	23.8	19.1	16.4	11.6	10.0	5.3

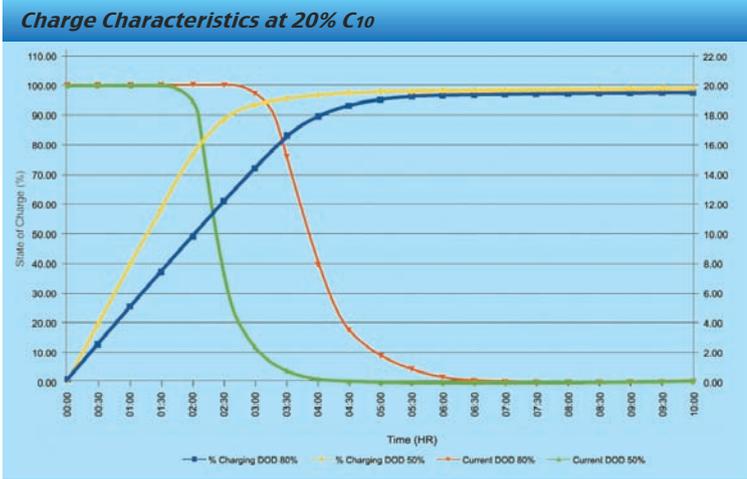
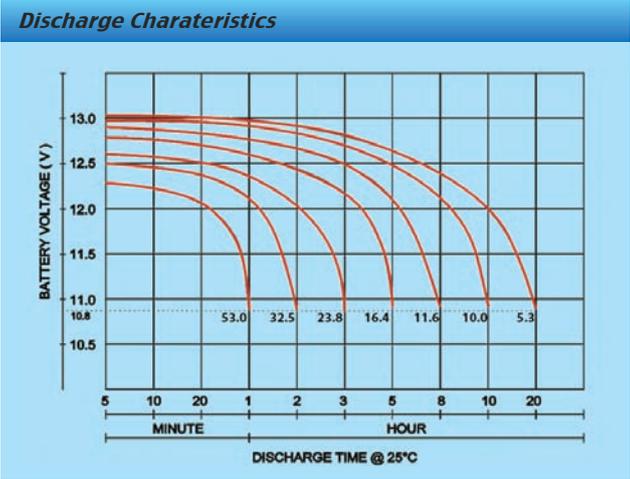
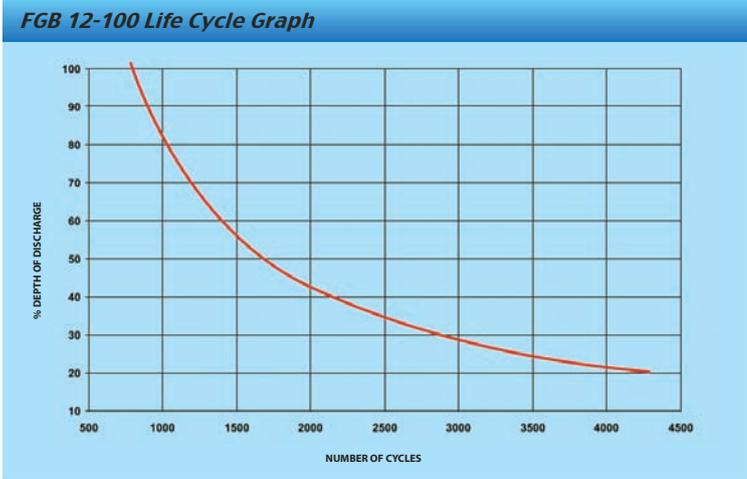
Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2C ₁₀ x2h+14.6-14.8V/Cellx24h, Max. Current 0.2C ₁₀
Constant Current	-0.2C ₁₀ x2h+0.1C ₁₀ x 12h
Fast	-0.2C ₁₀ x2h+0.3C ₁₀ x4.0h



INDUSTRIAL BATTERY

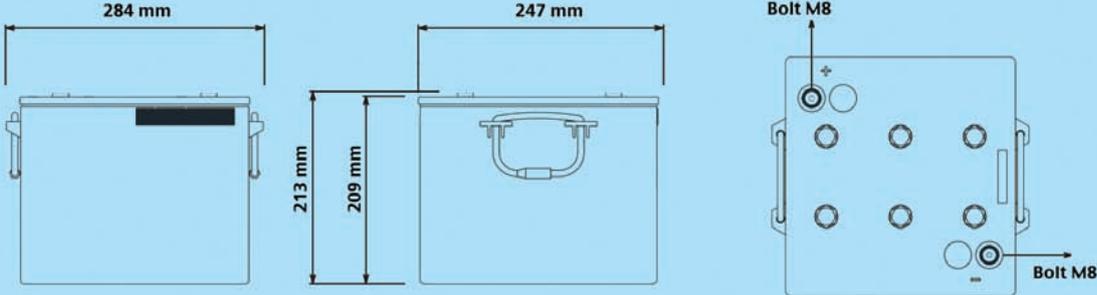


MAINTENANCE & CAUTIONS

Float Service:
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.2C ₁₀ , constant voltage 14.6-14.8V/Cell charge 24h.
※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

DIMENSION

L: 284mm W: 272mm H: 209mm TH: 213mm



APPLICATION

- Telecom
- UPS
- Communication Equipment
- Medical Equipment
- Control Equipment

GENERAL FEATURE

- Free maintenance and easy installation
- Sealed and maintenance free operator
- Non spillable construction design
- Safety valve installation for explosion proof
- High quality and reliability
- Polypropylene container and cover