



**FGL RANGE** IS DESIGNED TO SATISFY A WIDE RANGE OF APPLICATIONS REQUIRING HIGH LEVEL OF SECURITY AND RELIABILITY.

FGL batteries offer good performance with any discharge profile. FGL blocs can be installed in cabinets or racks. FGL uses proven VRLA technology with 99% internal recombination efficiency, is non-spillable and maintenance free therefore requires no topping up of electrolyte during its float-life. FGL range is non-hazardous for air/sea/rail/road transportation and is 100% recyclable. FGL has a self-discharge rate less than 2% per month, guaranteeing long shelf-life.

## SPECIFICATIONS

- Special lead calcium tin alloy grid, designed to resist corrosion and provide short recharge time.
- VRLA AGM technology using low resistance high microporous fiberglass separators.
- Leak resistant post seal, threaded female M5/M6/M8 terminals with high conductivity and maximum torque resistance.
- One-way safety relief valves allow gas to escape and prevent the ingress of oxygen. Flame arrestors prevent sparks or flames entering the battery.
- ABS plastics designed for superior mechanical strength.
- Heat sealed box to lid weld for superior integrity.
- Installation in any orientation (excluding permanently inverted).

## BATTERY TYPES



12FGL42



12FGL55



12FGL70



12FGL150



12FGL205

## MAIN APPLICATIONS



RENEWABLE ENERGY



LEISURE



LIGHT TRACTION



SECURITY SYSTEMS AND EMERGENCY LIGHTING

## TECHNOLOGY

FIAMM FGL range use AGM (absorbed glass mat) technology. The electrolyte is absorbed in fiberglass separators with 99% internal gas recombination efficiency. Blocs are grants non-spillable and maintenance free therefore requires no topping up of electrolyte during its whole life. Low self-discharge allows 6 months shelf life.

## STANDARDS

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- Eurobat "10 - 12 years LONG LIFE"
- UL Recognized (except 12FGL17)

## CERTIFICATIONS

- ISO 9001 - Quality Management System
- ISO 14001- Environmental Management System
- ISO 45001 - Occupational Health and Safety Management System

## ELECTRICAL CHARACTERISTICS

- Float Voltage: 2.26 V/cell at 25°C
- Boost Voltage: 2.35 V/cell
- Float Voltage Compensation with Temperature: -2.5 mV/cell/°C
- Self-Discharge at 25°C: <2%/month

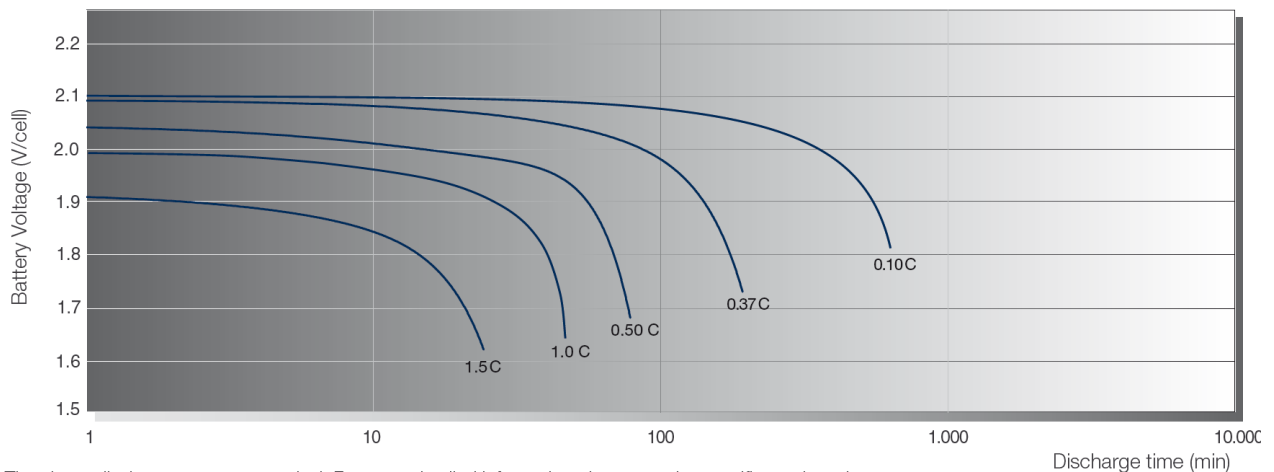
## TECHNICAL CHARACTERISTICS

| FIAMM FGL    |                     |  |                 |       |        |          |             |
|--------------|---------------------|--|-----------------|-------|--------|----------|-------------|
| Battery Type | Nominal Voltage (V) | Capacity (Ah) at 25°C 20 hrs to 1,75 VPC | Dimensions (mm) |       |        |          | Weight (kg) |
|              |                     |  | Length          | Width | Height | Height * |             |
| 12FGL17**    | 12                  | 17                                       | 181             | 76    | 167    | 157      | 6           |
| 12FGL27      | 12                  | 27                                       | 166             | 175   | 125    | 117      | 8,8         |
| 12FGL33      | 12                  | 33                                       | 196             | 130   | 159    | 163      | 11          |
| 12FGL42      | 12                  | 42                                       | 197             | 166   | 173    | 163      | 14          |
| 12FGL55      | 12                  | 55                                       | 230             | 140   | 207    | 212      | 17          |
| 12FGL70      | 12                  | 70                                       | 268             | 174   | 190    | 194      | 20          |
| 12FGL70/L    | 12                  | 70                                       | 348             | 167   | 177    | 161      | 21          |
| 12FGL80      | 12                  | 80                                       | 260             | 168   | 209    | 214      | 23          |
| 12FGL100     | 12                  | 100                                      | 330             | 172   | 215    | 222      | 31          |
| 12FGL120     | 12                  | 120                                      | 407             | 173   | 220    | 225      | 37          |
| 12FGL150     | 12                  | 150                                      | 483             | 170   | 240    | 239      | 46          |
| 12FGL210     | 12                  | 205                                      | 522             | 239   | 218    | 223      | 62          |

\* Height including terminals

\*\* Plastic are UL94 V0 flame retardant grade

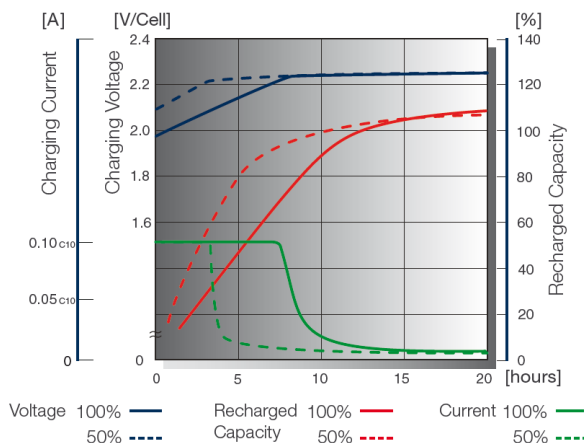
## DISCHARGE CURVES at different current / final voltage (at 25°C)



The above discharge curves are typical. For more detailed information please see the specific product sheets.

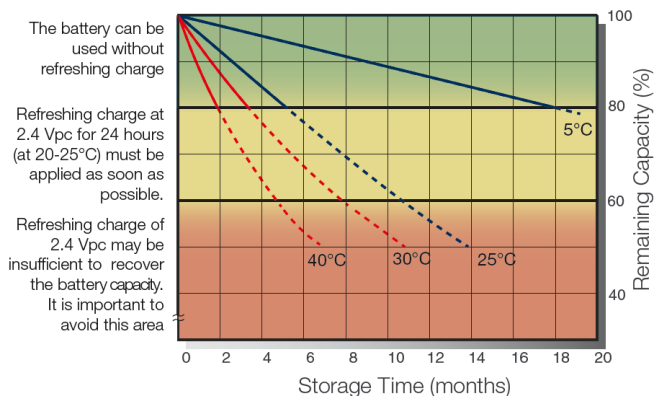
## TYPICAL CHARGE CURVES

Battery Voltage and Charge Time for Standby Use (at 25°C)



## STORAGE

Capacity loss during storage at various temperatures



A2B, s.r.o. reserves the right to change any specifications without prior notice. (74-000022-02)