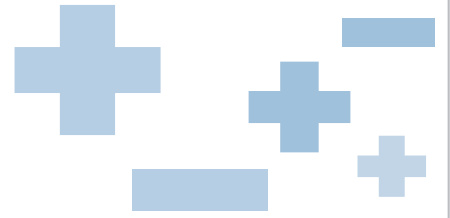


# FIAMM

Industrial Batteries

# FGC

series



## Applications and Key Benefits

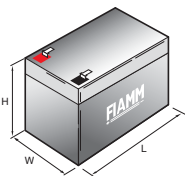
- Designed for regular and long deep discharge
- Ideal for:
  - Unstable grid & off-grid installation
  - Leisure & toys
  - Minor traction & medical equipment
  - Renewable energy storage
- 12V monoblocs
- Excellent cycling performance
- 5 years design life in float operation in temperature controlled environment
- VRLA AGM and gas recombination technology with 99% internal recombination
- Optimized for deep discharge recovery
- Non-spillable and maintenance free
- Non-hazardous for air/sea/rail/road transportation
- 100% Recyclable

| Model    | Nominal voltage (V) | Capacity (Ah)                  | Weight (kg) | Dimensions (mm) |     |     |     | Internal Resistance |
|----------|---------------------|--------------------------------|-------------|-----------------|-----|-----|-----|---------------------|
|          |                     | Discharge 20 h rate 1.75V/cell |             | L               | W   | H   | TH* |                     |
| FGC21202 | 12                  | 12                             | 4.15        | 151             | 98  | 95  | 100 | 14.8 mΩ             |
| FGC21803 | 12                  | 18                             | 5.35        | 181             | 76  | 166 | 166 | 9.8 mΩ              |
| FGC22703 | 12                  | 27                             | 8.10        | 166             | 175 | 125 | 125 | 8.0 mΩ              |
| FGC23505 | 12                  | 35                             | 12.2        | 196             | 132 | 169 | 169 | 6.5 mΩ              |
| FGC24207 | 12                  | 42                             | 13.0        | 195             | 165 | 165 | 170 | 4.6 mΩ              |

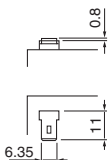
\*TH = total height including terminals

## Terminal Type

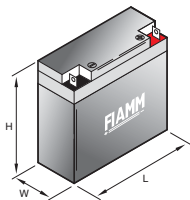
FGC 21202



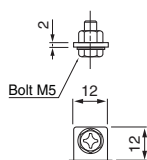
■ Faston 6.3



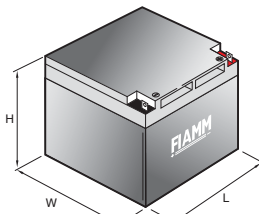
FGC 21803



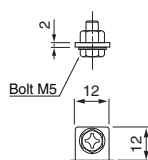
■ Flag Ø5.5



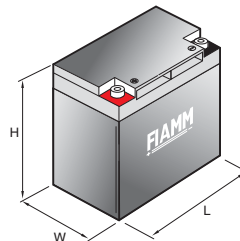
FGC 22703



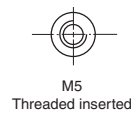
■ Flag Ø5.5



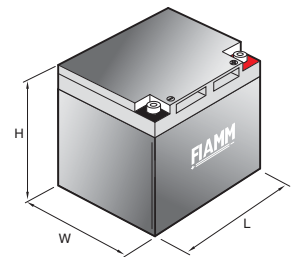
FGC 23505



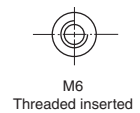
■ Round M5



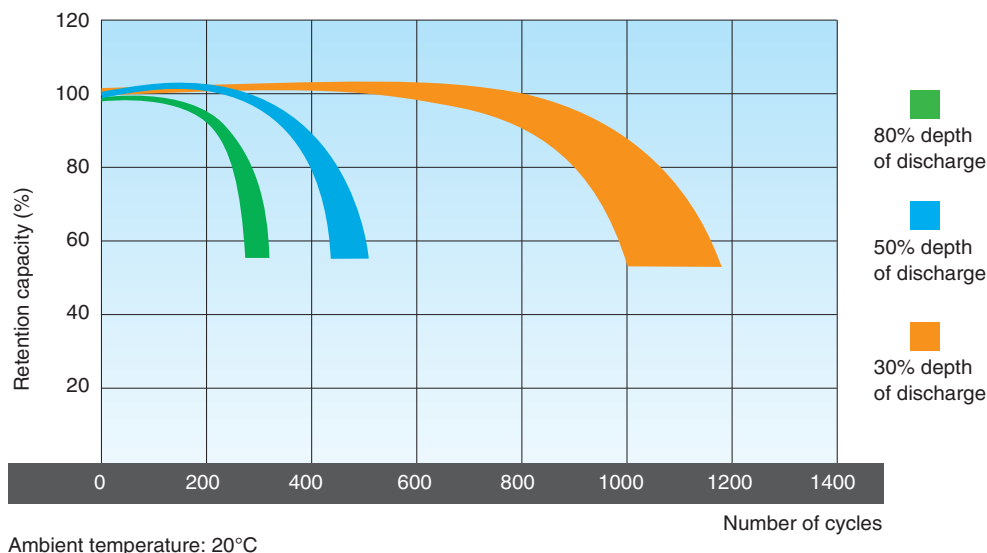
FGC 24207



■ Round M6



## Lifetime in cyclic use



### Technical Features

- **Grids:** gravity casted grids with high purity lead calcium tin alloy
- **Separators:** electrolyte fully absorbed in glass mat "AGM" separators with extremely high micro porosity
- **Terminal posts:** faston, flag or female terminals depending on the model
- **Post seals:** high integrity post seal design prevents acid leakage over a wide temperature range
- **One-way safety valves** allow excess gas to escape when overcharging
- **Container and cover:** made of thick walled ABS plastics, designed for unsurpassed mechanical strength
- **Shelf life:** < 2% self-discharge per month at 20°C allows 6 months shelf life

### Electrical Characteristics

#### Recharge methods:

- standby use: 13.50 - 13.80 V/bloc
- cyclic use: 14.40 - 15.00 V/bloc
- initial charge current: 0.20 - 0.25 C<sub>20</sub>

#### Operating temperature ranges:

- recharge: 0° ÷ 40°C
- discharge: -20° ÷ 50°C
- storage: -20° ÷ 50°C

### Applicable Standards

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- UL Recognized
- Eurobat "Standard Commercial" - 3-5 years

### FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- OHSAS 18001 - Workplace Safety & Health