FIAMM

Industrial Batteries

FGC series

Applications and Key Benefits

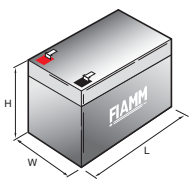
- Designed for regular and long deep discharge
  Ideal for:
  - Unstable grid & off-grid installation
  - Leisure & toys
  - Minor traction & medical equipment
  - Renewable energy storage
- 12V monoblocs
- Excellent cycling performance
- 5 years design life in float operation in temperature controlled 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

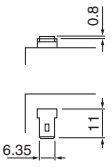
*TH = total height including terminals

Terminal Type

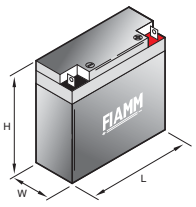
FGC 21202



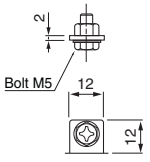
■ Faston 6.3



FGC 21803



■ Flag Ø5.5



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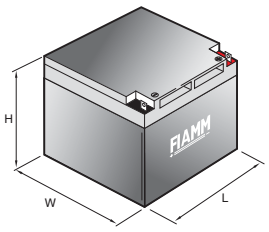
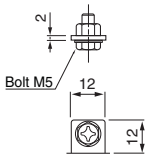
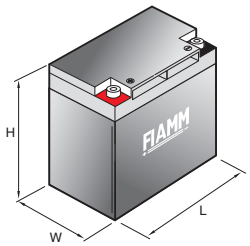


■ Flag Ø5.5



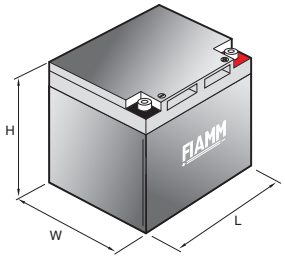
FGC 23505



■ Round M5

M5
Threaded inserted

FGC 24207

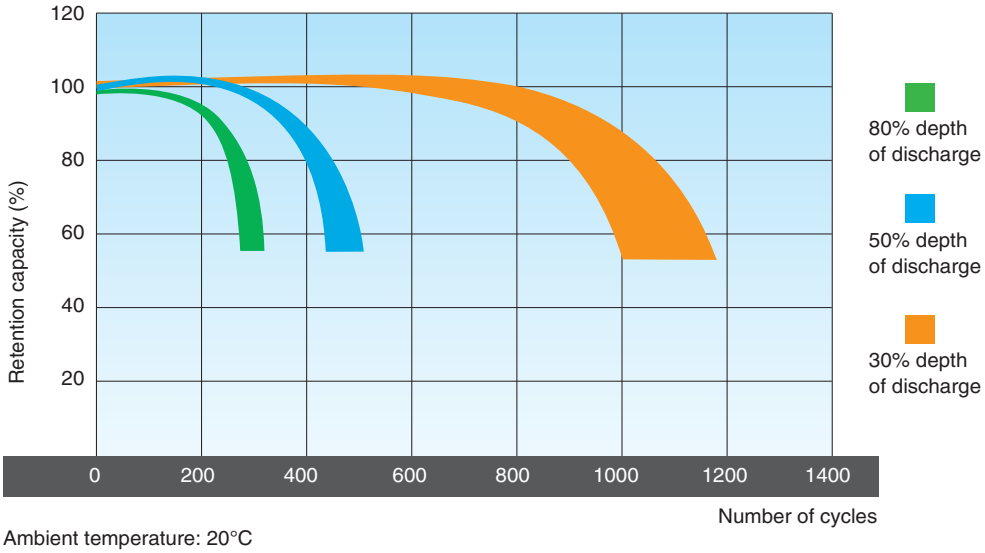


■ Round M6

M6
Threaded inserted

FGC series

Lifetime in cyclic use



Ambient temperature: 20°C

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_{20}

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

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