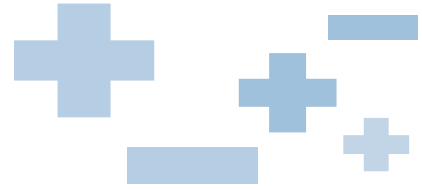


# FIAMM

Industrial Batteries

# FG series



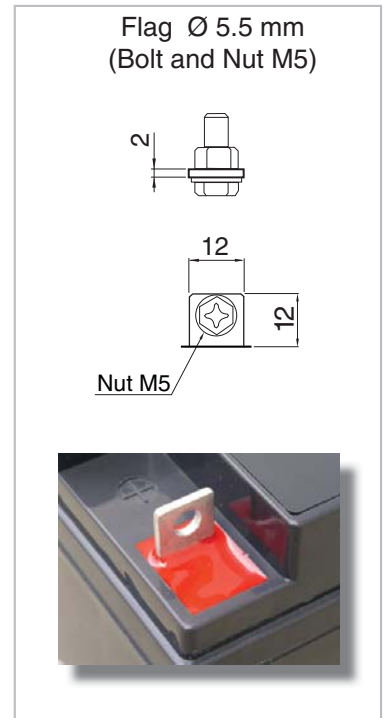
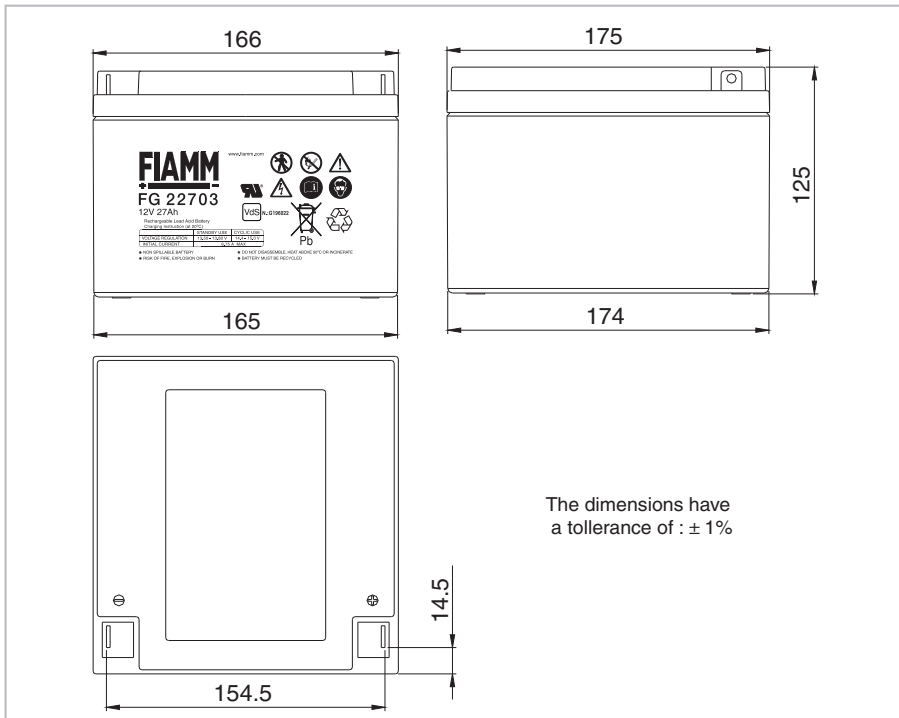
## FG22703

### 12 Volt 27 Ah

FG22703 is a general purpose application battery. Within the FG range FIAMM offer 6V and 12V monoblocs at various amp hour capacities enable the right battery selection for each requirement. FIAMM is a Manufacturer of VRLA batteries and is supported by a dedicated sales network with market knowledge and experience of small sealed lead acid battery applications.

#### Features

Nominal Voltage	12 Volt
Nominal Capacity	27 Ah 20 hours rate to 1.75 Vpc at 25 °C
Float charging voltage	13.50 - 13.80 V/bloc at 25 °C
Boost charge voltage	14.40 - 15.00 V/bloc at 25 °C
Float voltage compensation	-18mV/°C
Maximum charging current	6.75 A
Case	ABS with HB flammability rate (according UL 94)
Internal resistance	8.0 mΩ in full charged condition
Weight	8.50 kg
Dimensions	L x W x H (TH): 166 x 175 x 125 (125)
Operative temperature range	-20 °C to 50 °C
Shelf life procedures	As batteries lose part of their capacity, during storage, due to self discharge. Fiamm recommends FG range of batteries can be stored for 6 months at an ambient temperature of 20 and 25 °C (see attached graph on reverse). Longer storage requires a recharge. This should be carried out in line with Fiamm recommended method; 2.4 V/cell for no longer than 24 hours at 20 °C



# SSLA Products

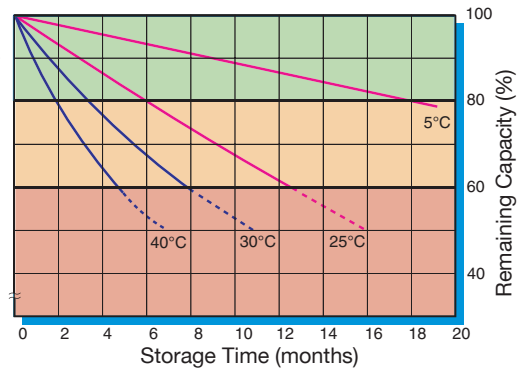
## FG22703 12 Volt 27 Ah

Capacity loss during storage at various temperatures

The battery can be used without refreshing charge

Refreshing charge at 2.4 Vpc for 24 hours (at 20-25°C) must be applied as soon as possible.

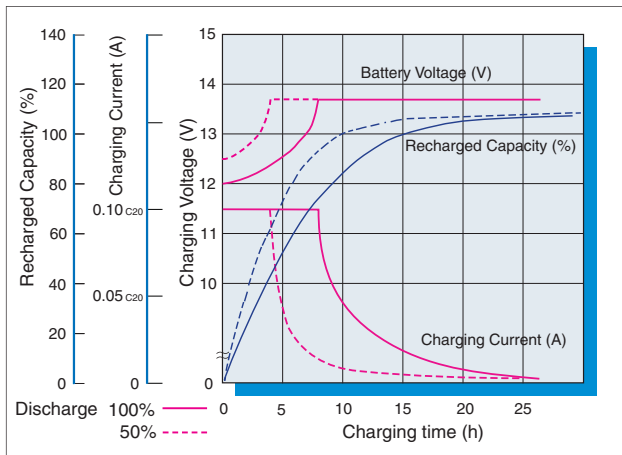
Refreshing charge of 2.4 Vpc may be insufficient to recover the battery capacity. It is important to avoid this area



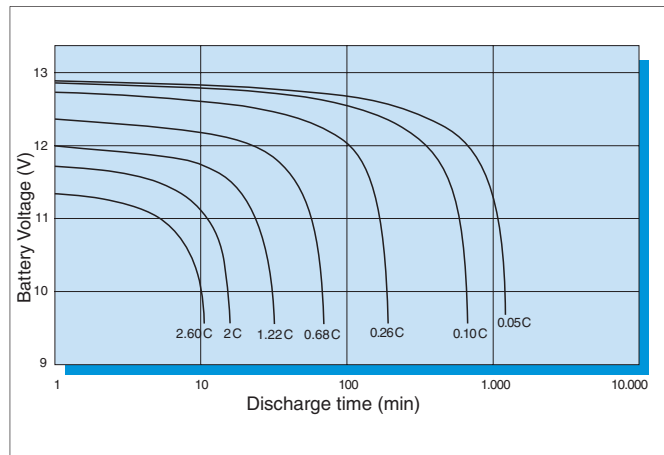
VdS N.:G196022



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



### Discharge curves at different current / final voltage (at 25°C)



### Constant Current discharge table (Amperes)

End voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hour	3 hour	5 hour	10 hour	20 hour
9.60 V	87.8	62.5	48.8	40.2	29.0	21.3	17.7	9.74	6.96	4.57	2.54	1.40
9.90 V	84.5	60.6	47.7	39.4	28.7	21.1	17.6	9.68	6.93	4.54	2.53	1.39
10.02 V	82.4	59.9	47.2	39.1	28.5	21.0	17.4	9.62	6.86	4.50	2.51	1.39
10.20 V	79.8	58.3	46.7	38.8	28.3	20.9	17.1	9.56	6.81	4.48	2.50	1.38
10.50 V	76.0	56.9	45.5	37.9	27.9	20.6	16.8	9.38	6.73	4.4	2.46	1.36
10.80 V	69.9	53.4	43.0	36.1	26.7	19.9	16.2	9.10	6.55	4.31	2.38	1.32

### Constant Power discharge table (Watts per bloc)

End voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hour	3 hour	5 hour	10 hour	20 hour
9.60 V	877	640	511	428	317	237	199	111	79.9	52.8	29.5	16.3
9.90 V	848	626	503	423	314	235	199	111	79.9	52.7	29.4	16.3
10.02 V	829	619	498	420	312	234	197	110	79.2	52.4	29.4	16.3
10.20 V	803	605	494	417	311	234	194	110	78.8	52.3	29.3	16.2
10.50 V	767	592	484	410	308	232	191	108	78.3	51.6	29.0	16.1
10.80 V	709	557	460	393	296	225	185	105	76.6	50.7	28.1	15.8