

FG22705

FIAMM

FIAMM Sealed Power

FG series

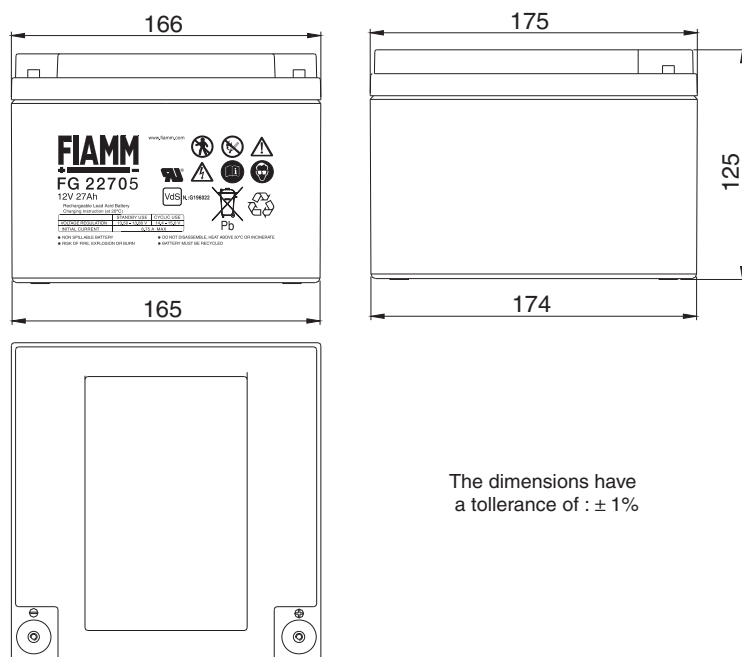
FG22705 is a general purpose application battery. Within the FG range Fiamm offer 6V and 12V monoblocs at various amp hour capacities enable the right battery selection for each requirement. FIAMM Sealed Power is a Manufacturer of VRLA batteries; and is supported by a dedicated sales network with market knowledge and experience of small sealed lead acid battery applications.

**12 Volt
27 Ah**



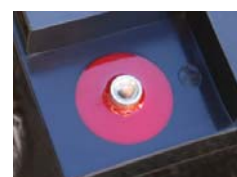
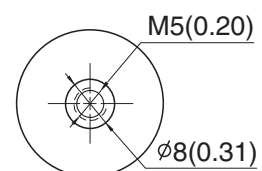
Features

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 Sealed Power 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 Sealed Power recommended method; 2.4 V/cell for no longer than 24 hours at 20 °C



The dimensions have
a tolerance of : $\pm 1\%$

Threaded inserted
M5

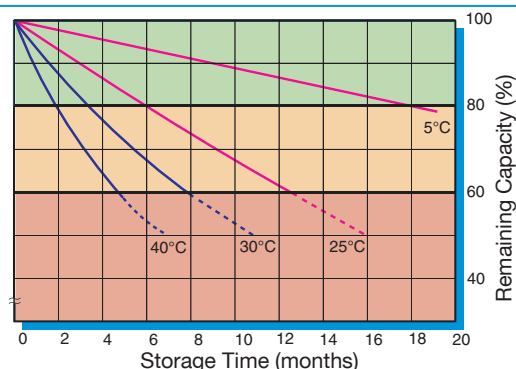


Capacity loss during storage at various temperatures

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.

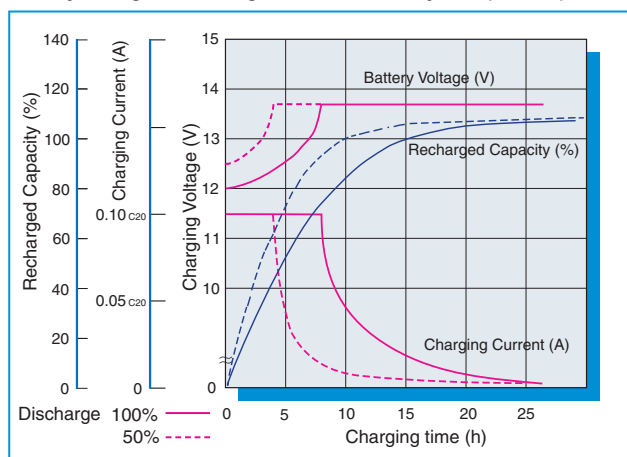
Refreshing charge of 2.4 Vpc may be insufficient to recover the battery capacity. It is important to avoid this area



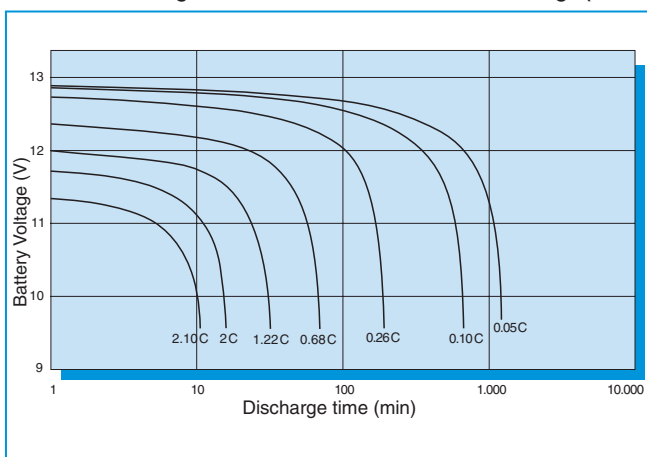
VdS N.:G196022



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



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



Costant 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	80.9	57.6	45.0	37.0	27.6	20.3	16.9	9.45	6.75	4.44	2.54	1.40
9.90 V	77.9	55.9	44.0	36.3	27.3	20.1	16.8	9.40	6.73	4.40	2.53	1.39
10.02 V	76.0	55.2	43.5	36.0	27.1	20.0	16.6	9.34	6.66	4.37	2.51	1.39
10.20 V	73.5	53.8	43.0	35.7	27.0	19.9	16.3	9.29	6.62	4.35	2.50	1.38
10.50 V	70.0	52.4	42.0	34.9	26.6	19.6	16.0	9.11	6.53	4.27	2.46	1.36
10.80 V	64.4	49.2	39.6	33.3	25.4	19.0	15.4	8.84	6.36	4.19	2.38	1.32

Costant 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	808	590	471	395	302	225	190	108	77.6	51.3	29.5	16.3
9.90 V	782	577	463	390	299	224	189	107	77.6	51.1	29.4	16.3
10.02 V	764	571	459	387	298	223	187	107	76.9	50.9	29.4	16.3
10.20 V	740	557	456	385	296	222	184	106	76.6	50.8	29.3	16.2
10.50 V	707	545	446	377	293	221	182	105	76.0	50.1	29.0	16.1
10.80 V	653	514	424	362	282	214	176	102	74.3	49.2	28.1	15.8