

FGH21803

FIAMM

FIAMM Sealed Power

FGH series

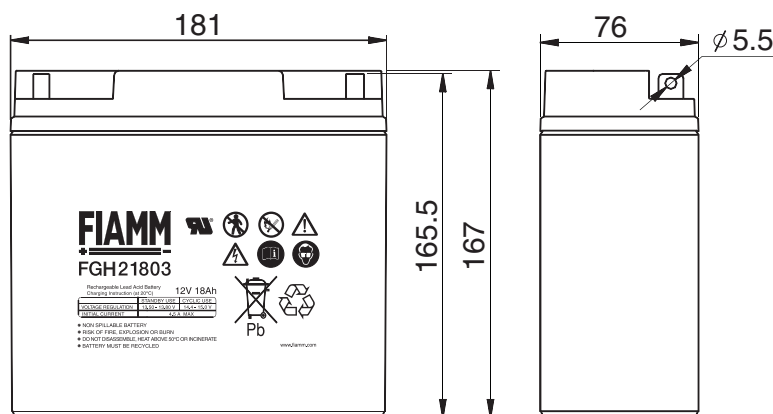
Fiamm FGH21803, is a high rate battery specifically designed for UPS applications. Fiamm FG range of batteries ensure the correct battery is supplied to the appropriate application. Fiamm S.P.A. is a Global manufacturer of Lead Acid technology batteries and these products are supported by Fiamm's sales network with vast market knowledge & experience of Standby Lead Acid battery applications.

12 Volt
18 Ah



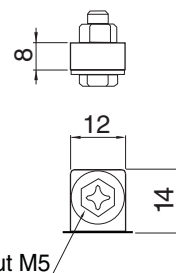
Features

Nominal Voltage	12 Volt
Nominal Capacity	18 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	4.5 A
Case	ABS with HB flammability rate (according UL 94)
Internal resistance	9.8 mΩ in full charged condition
Weight	6.40 kg
Dimensions	L x W x H (TH): 181 x 76 x 167 (167)
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



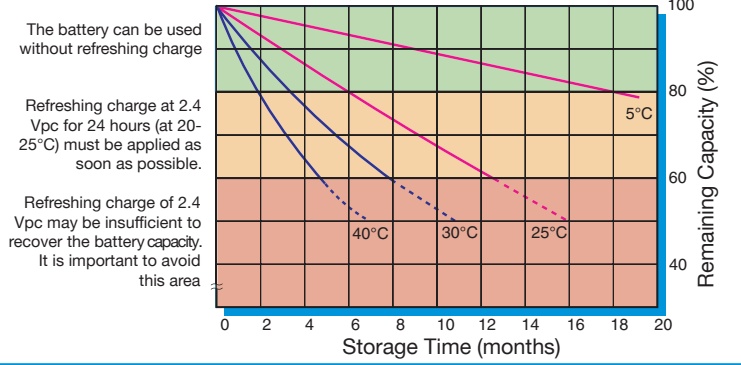
The dimensions have a tolerance of : ± 1.6%

Flag Ø 5.5 mm
(Bolt and Nut M5)

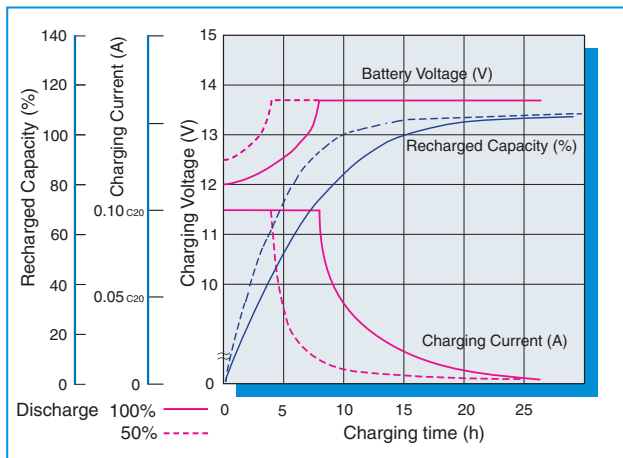




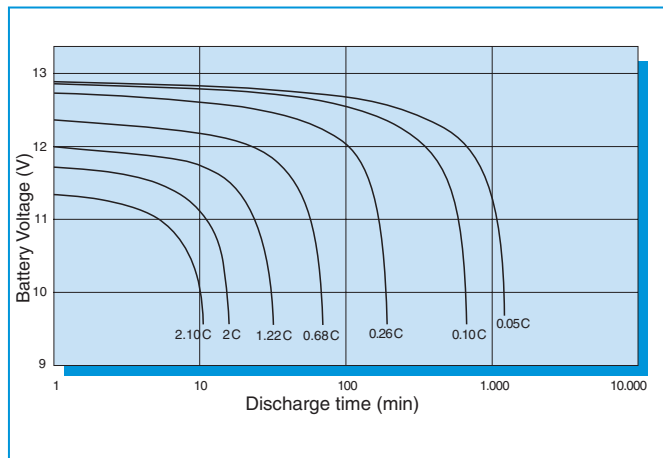
Capacity loss during storage at various temperatures



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	67.3	44.8	33.4	27.0	19.7	14.4	11.5	6.47	4.65	3.03	1.65	0.90
9.90 V	65.1	43.7	32.8	26.5	19.5	14.2	11.3	6.39	4.60	2.98	1.63	0.89
10.02 V	64.0	43.1	32.4	26.3	19.3	14.1	11.3	6.34	4.57	2.96	1.62	0.89
10.20 V	62.3	42.4	32.1	26.1	19.2	14.0	11.2	6.28	4.54	2.94	1.61	0.88
10.50 V	59.8	41.2	31.2	25.6	18.9	13.9	11.1	6.17	4.46	2.89	1.58	0.87
10.80 V	56.8	40.0	30.6	25.0	18.6	13.6	10.9	6.07	4.39	2.84	1.55	0.86

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	672	459	350	288	215	160	129	73.7	53.4	35.0	19.2	10.5
9.90 V	654	451	346	285	213	158	128	73.1	53.0	34.6	19.0	10.4
10.02 V	643	446	342	283	212	158	127	72.5	52.8	34.5	18.9	10.4
10.20 V	627	439	339	281	211	157	127	72.0	52.6	34.3	18.8	10.4
10.50 V	603	429	332	276	209	156	126	71.1	51.8	33.9	18.6	10.3
10.80 V	577	418	327	272	206	154	124	70.3	51.3	33.4	18.3	10.2