

FGH20502

FIAMM

FIAMM Sealed Power

FGH series

Fiamm FGH20502, 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
5 Ah**

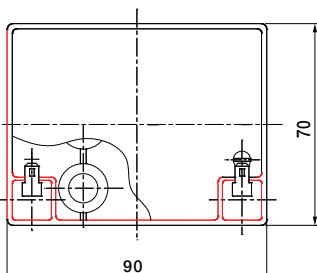
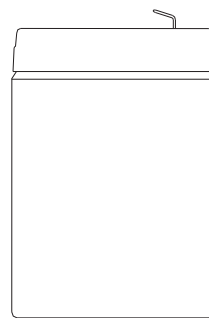
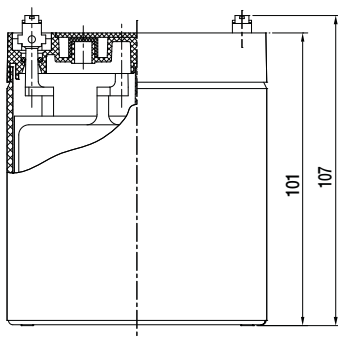


Features

Nominal Voltage	12 Volt
Nominal Capacity	5.0 Ah at 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	1.25 A
Case	ABS with HB flammability rate (according UL94)
Internal resistance	37 mΩ in full charged condition
Weight	2.0 kg
Dimensions	L x W x H (TH): 90 x 70 x 101 (107)
Operative temperature range	-20 °C to 50 °C

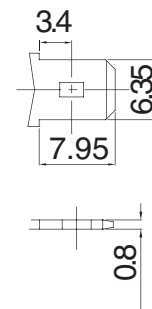
Storage

As batteries lose part of their capacity, during storage, due to self discharge. Fiamm Sealed Power recommends FGH 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

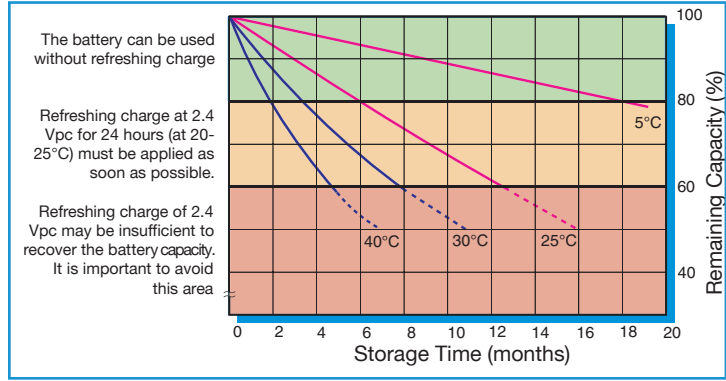


The dimensions have a tolerance of : $\pm 1.6\%$

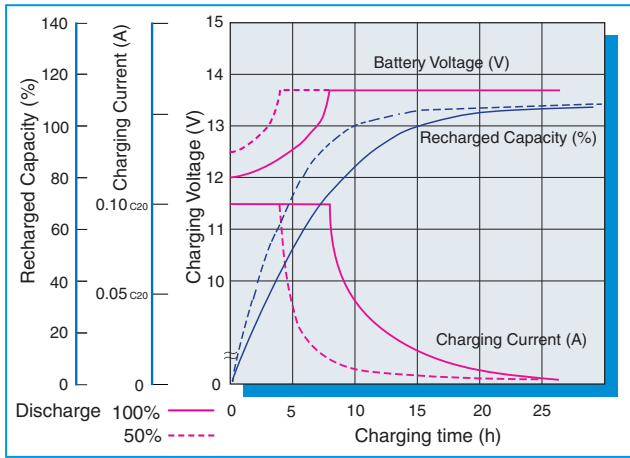
Faston 6.3 mm



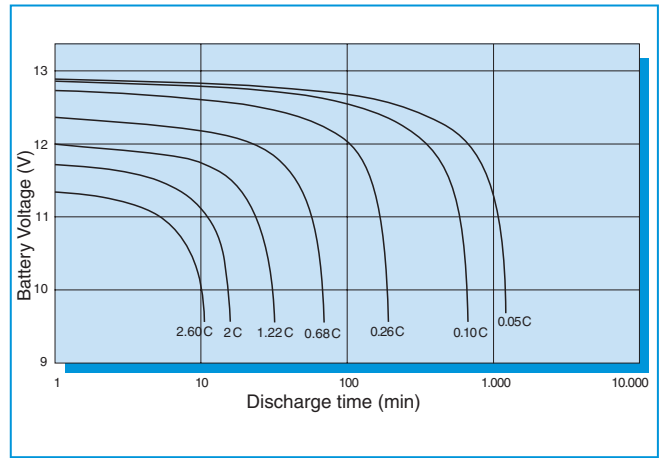
Capacity loss during storage at various temperatures



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



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



Constant Current discharge table (Amperes)

End voltage	5 min	7 min	10 min	15 min	20 min	30 min	45 min	60 min	120 min	180 min	300 min	600 min
09.60	22.2	19.8	16.3	12.6	10.3	7.44	5.22	4.03	2.09	1.42	0.88	0.47
09.90	22.0	19.7	16.2	12.5	10.2	7.40	5.20	4.01	2.08	1.42	0.87	0.47
10.02	21.9	19.5	16.1	12.5	10.2	7.36	5.17	3.99	2.08	1.41	0.87	0.47
10.20	21.5	19.2	15.9	12.3	10.0	7.29	5.12	3.95	2.07	1.41	0.87	0.46
10.50	20.7	18.6	15.4	12.1	9.82	7.15	5.03	3.88	2.05	1.40	0.86	0.46
10.80	19.5	17.7	14.8	11.5	9.36	6.75	4.79	3.71	1.96	1.34	0.83	0.44

Constant Power discharge table (Watts per bloc)

End voltage	5 min	7 min	10 min	15 min	20 min	30 min	45 min	60 min	120 min	180 min	300 min	600 min
09.60	229	206	172	135	110	80.9	57.3	44.5	23.3	16.0	9.94	5.39
09.90	231	208	173	136	111	81.4	57.6	44.7	23.5	16.1	9.96	5.38
10.02	232	208	174	136	111	81.6	57.7	44.7	23.5	16.1	9.97	5.37
10.20	230	207	173	136	111	81.3	57.5	44.6	23.5	16.1	9.96	5.34
10.50	226	204	171	135	110	80.7	57.1	44.2	23.5	16.1	9.93	5.28
10.80	218	198	167	131	107	77.4	55.1	42.8	22.7	15.6	9.64	5.16

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