

FGH20501A

FIAMM

FIAMM Sealed Power

FGH series

Fiamm FGH20501A, 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

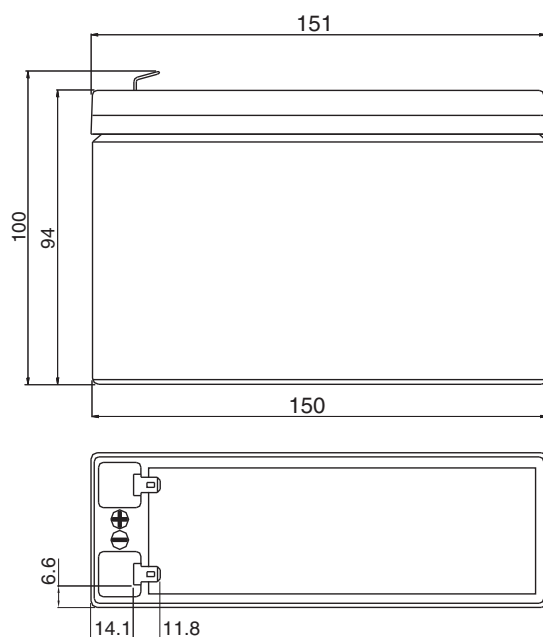


Features

| | |
|-----------------------------|--|
| 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 | 2.00 kg |
| Dimensions | L x W x H (TH): 151 x 51 x 94 (100) |
| Operative temperature range | -20 °C to 50 °C |

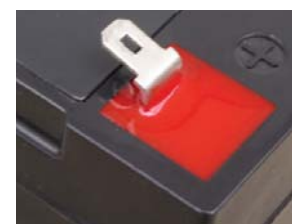
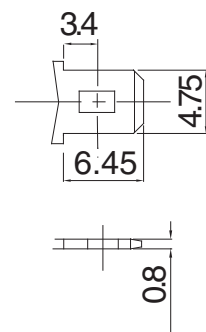
Storage

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

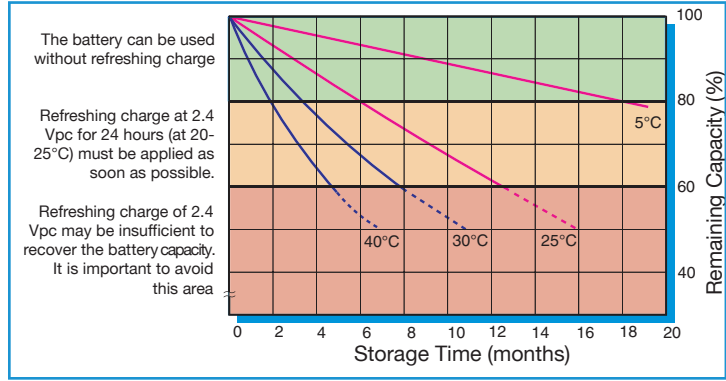


The dimensions have a tolerance of : $\pm 1.6\%$

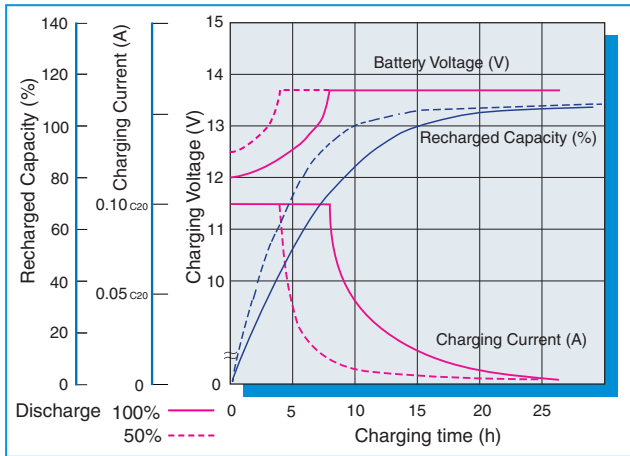
Faston 4.8 mm



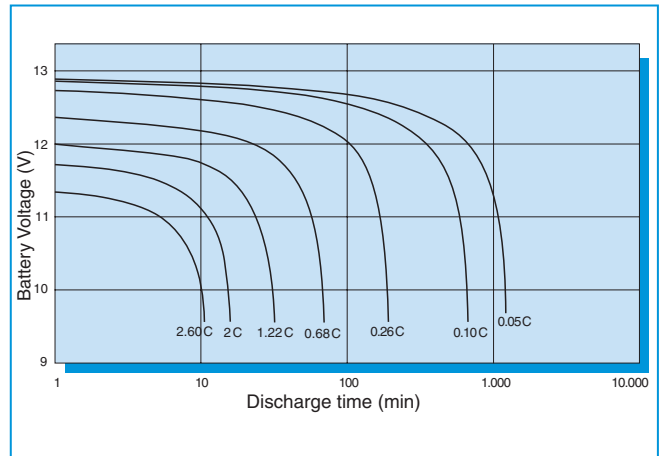
Capacity loss during storage at various temperatures



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 | 1 hour | 2 hour | 3 hour | 5 hour | 10 hour |
|-------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 9.60 | 22.2 | 19.8 | 16.3 | 12.6 | 10.3 | 7.44 | 5.22 | 4.03 | 2.09 | 1.42 | 0.88 | 0.47 |
| 9.90 | 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 | 1 hour | 2 hour | 3 hour | 5 hour | 10 hour |
|-------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 9.60 | 229 | 206 | 172 | 135 | 110 | 80.9 | 57.3 | 44.5 | 23.3 | 16.0 | 9.94 | 5.39 |
| 9.90 | 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 |