

FIAMM

Industrial Batteries

FGH

series



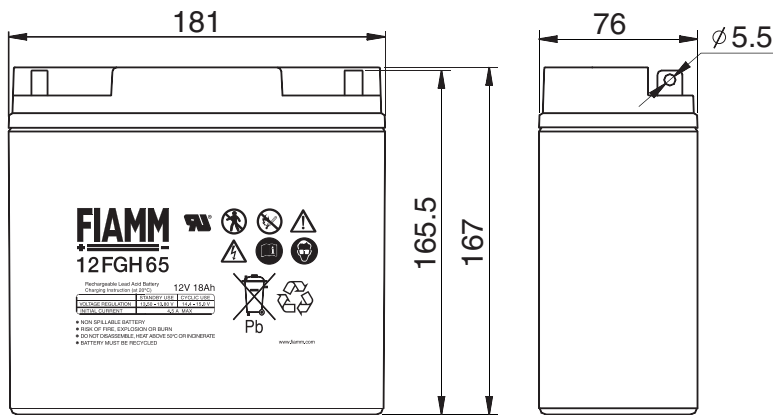
12FGH65

12 Volt 18 Ah

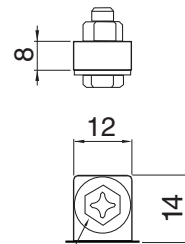
Fiamm 12FGH65, is an high rate battery specifically designed for UPS applications. Fiamm FGH range of batteries ensure the correct battery is supplied to the appropriate application. FIAMM is a Manufacturer of VRLA batteries and is supported by a dedicated sales network with market knowledge and experience of small sealed lead acid battery applications.

Features

| | |
|-----------------------------|--|
| Nominal Voltage | 12 Volt |
| Nominal Capacity | 58.3 W @ 15 min-rate to 1.6 Vpc at 25 °C 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 | 6.4 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 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 recommended method; 2.4 V/cell for no longer than 24 hours at 20 °C |



Flag Ø 5.5 mm
(Bolt and Nut M5)



Nut M5



The dimensions have a tolerance of : ± 1.6%

SSLA Products

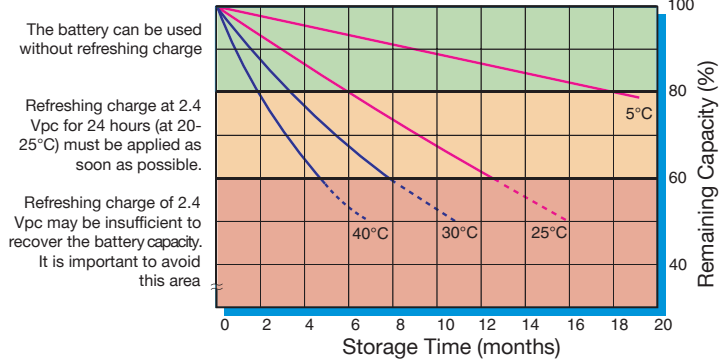
12FGH65

12 Volt

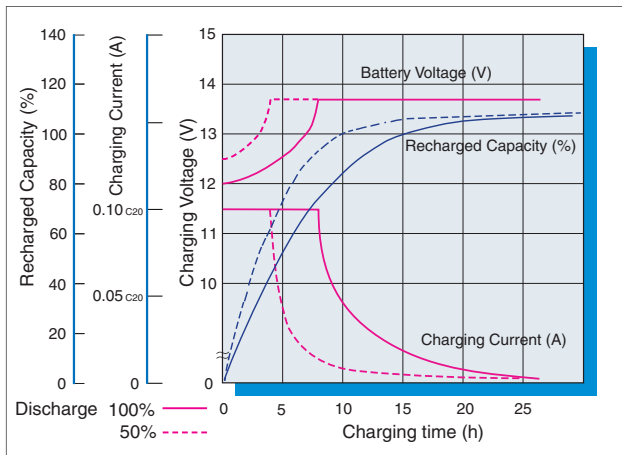
18 Ah



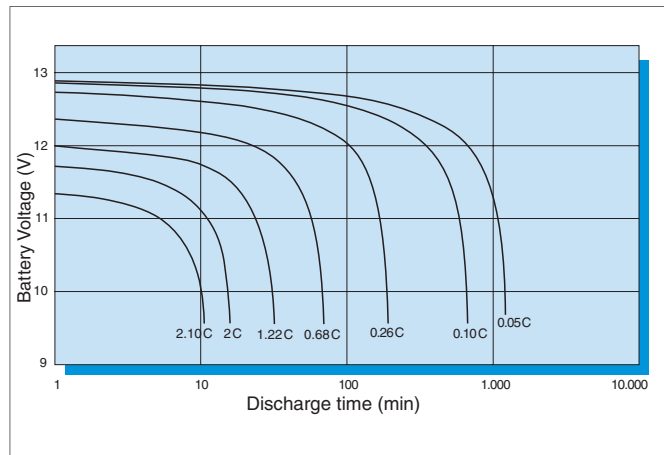
Capacity loss during storage at various temperatures



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 | 10 min | 15 min | 20 min | 30 min | 45 min | 1 hour | 2 hrs | 3 hrs | 5 hrs |
|-------------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 9.60 V | 67.3 | 44.8 | 33.4 | 27.0 | 19.7 | 14.4 | 11.5 | 6.47 | 4.65 | 3.03 |
| 9.90 V | 65.1 | 43.7 | 32.8 | 26.5 | 19.5 | 14.2 | 11.3 | 6.39 | 4.60 | 2.98 |
| 10.02 V | 64.0 | 43.1 | 32.4 | 26.3 | 19.3 | 14.1 | 11.3 | 6.34 | 4.57 | 2.96 |
| 10.20 V | 62.3 | 42.4 | 32.1 | 26.1 | 19.2 | 14.0 | 11.2 | 6.28 | 4.54 | 2.94 |
| 10.50 V | 59.8 | 41.2 | 31.2 | 25.6 | 18.9 | 13.9 | 11.1 | 6.17 | 4.46 | 2.89 |
| 10.80 V | 56.8 | 40.0 | 30.6 | 25.0 | 18.6 | 13.6 | 10.9 | 6.07 | 4.39 | 2.84 |

Constant Power discharge table (Watts per bloc)

| End voltage | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 hour | 2 hrs | 3 hrs | 5 hrs |
|-------------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 9.60 V | 672 | 459 | 350 | 288 | 215 | 160 | 129 | 73.7 | 53.4 | 35.0 |
| 9.90 V | 654 | 451 | 346 | 285 | 213 | 158 | 128 | 73.1 | 53.0 | 34.6 |
| 10.02 V | 643 | 446 | 342 | 283 | 212 | 158 | 127 | 72.5 | 52.8 | 34.5 |
| 10.20 V | 627 | 439 | 339 | 281 | 211 | 157 | 127 | 72.0 | 52.6 | 34.3 |
| 10.50 V | 603 | 429 | 332 | 276 | 209 | 156 | 126 | 71.1 | 51.8 | 33.9 |
| 10.80 V | 577 | 418 | 327 | 272 | 206 | 154 | 124 | 70.3 | 51.3 | 33.4 |