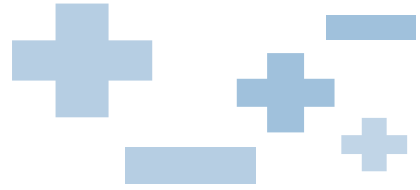


**FIAMM**

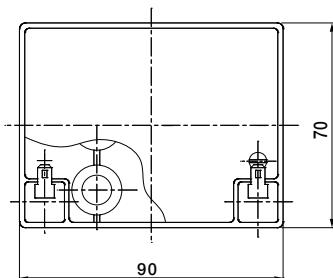
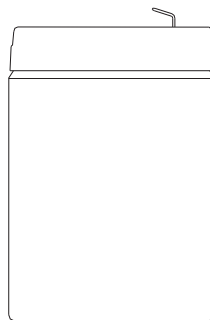
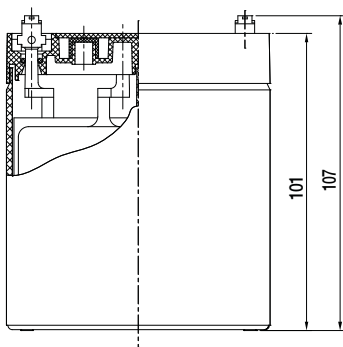
Industrial Batteries

**FGH**  
series**12FGH23****12 Volt**  
**5 Ah**

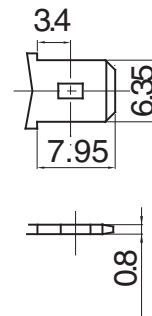
Fiamm 12FGH23, is an high rate battery specifically designed for UPS applications. Fiamm FGH range of batteries ensure the correct battery is supplied to the appropriate application. FIAMM is a Manufacturer of VRLA batteries and is supported by a dedicated sales network with market knowledge and experience of small sealed lead acid battery applications.

**Features**

|                             |                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal Voltage             | 12 Volt                                                                                                                                                                                                                                                                                                                                                                              |
| Nominal Capacity            | 5.0 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    | 1.25 A                                                                                                                                                                                                                                                                                                                                                                               |
| Case                        | ABS with HB fiammability rate (according UL 94)                                                                                                                                                                                                                                                                                                                                      |
| Internal resistance         | 37 mΩ in full charged condition                                                                                                                                                                                                                                                                                                                                                      |
| Weight                      | 2.00 kg                                                                                                                                                                                                                                                                                                                                                                              |
| Dimensions                  | L x W x H (TH): 90 x 70 x 102 (105)                                                                                                                                                                                                                                                                                                                                                  |
| 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 |



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

**Faston 6.3 mm****SSLA Products**

## 12FGH23 12 Volt 5 Ah

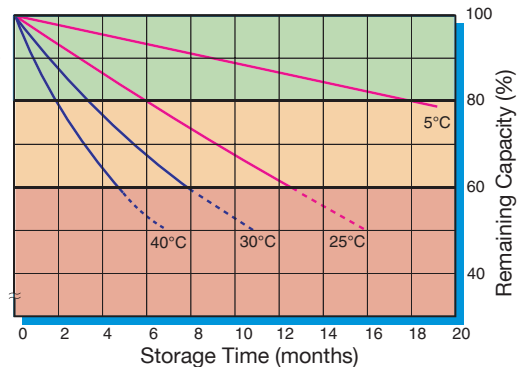


Capacity loss  
during storage  
at various  
temperatures

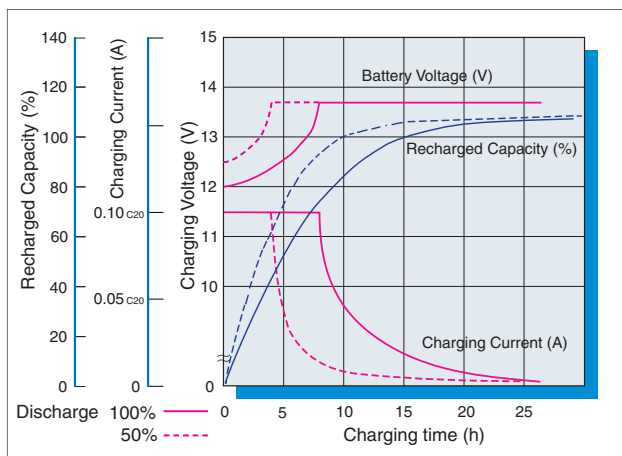
The battery can be used  
without refreshing charge

Refreshing charge at 2.4  
Vpc for 24 hours (at 20-  
25°C) must be applied as  
soon as possible.

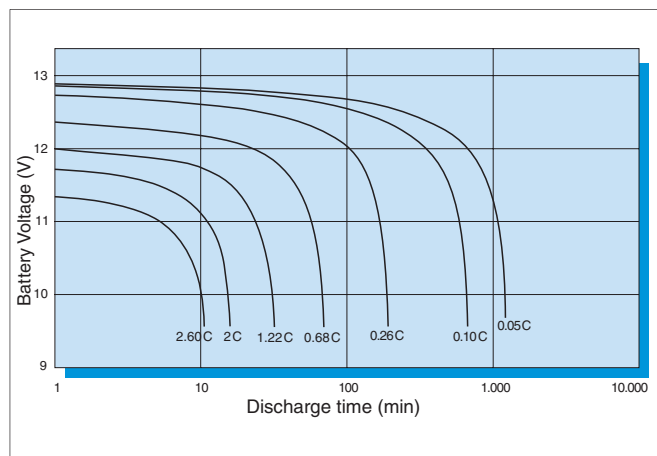
Refreshing charge of 2.4  
Vpc may be insufficient to  
recover the battery capacity.  
It is important to avoid  
this area



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 hrs | 3 hrs | 5 hrs |
|-------------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 9.60 V      | 22.8  | 15.8   | 11.5   | 9.2    | 6.68   | 4.79   | 3.78   | 2.16  | 1.54  | 0.99  |
| 9.90 V      | 22.5  | 15.5   | 11.5   | 9.1    | 6.64   | 4.78   | 3.77   | 2.15  | 1.53  | 0.98  |
| 10.02 V     | 22.1  | 15.2   | 11.4   | 9.0    | 6.61   | 4.76   | 3.76   | 2.14  | 1.52  | 0.98  |
| 10.20 V     | 21.5  | 14.9   | 11.2   | 8.9    | 6.54   | 4.73   | 3.74   | 2.12  | 1.50  | 0.97  |
| 10.50 V     | 20.2  | 14.2   | 10.8   | 8.7    | 6.40   | 4.66   | 3.70   | 2.09  | 1.48  | 0.96  |
| 10.80 V     | 19.1  | 13.4   | 10.2   | 8.4    | 6.26   | 4.45   | 3.51   | 1.96  | 1.39  | 0.91  |

Costant 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      | 248   | 179    | 133    | 107    | 79.2   | 57.8   | 46.2   | 26.7  | 19.2  | 12.4  |
| 9.90 V      | 245   | 176    | 132    | 106    | 78.9   | 57.8   | 46.2   | 26.7  | 19.1  | 12.4  |
| 10.02 V     | 242   | 173    | 131    | 106    | 78.7   | 57.6   | 46.1   | 26.6  | 19.0  | 12.4  |
| 10.20 V     | 235   | 169    | 129    | 105    | 78.0   | 57.3   | 45.9   | 26.4  | 18.8  | 12.3  |
| 10.50 V     | 222   | 162    | 125    | 102    | 76.6   | 56.8   | 45.5   | 26.1  | 18.7  | 12.2  |
| 10.80 V     | 211   | 154    | 120    | 100    | 75.6   | 54.5   | 43.4   | 24.7  | 17.7  | 11.6  |