

FIAMM

Industrial Batteries

FGHL

series



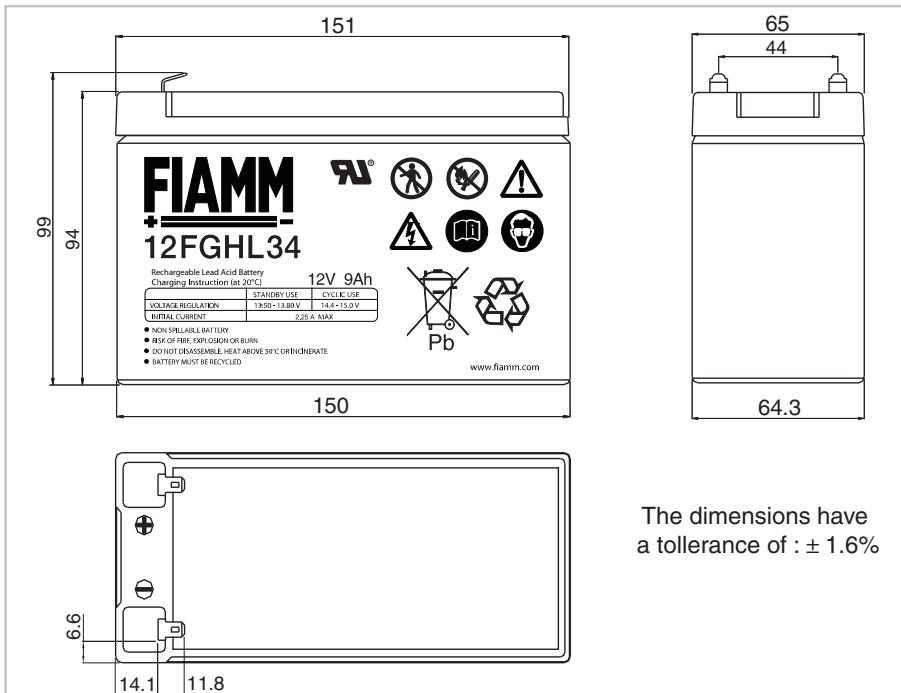
12FGHL34

12 Volt 9 Ah

12FGHL34 is specially designed for high efficient discharge application. It is a high power density range with a design life of 10 years. 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.

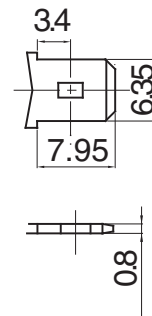
Features

| | |
|-----------------------------|---|
| Nominal Voltage | 12 Volt |
| Nominal Capacity | 33.5 W @ 15 min-rate to 1.6 Vpc at 25 °C 9.0 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 flammability rate (according UL 94) |
| Internal resistance | 23.6 mΩ in full charged condition |
| Weight | 2.70 kg |
| Dimensions | L x W x H (TH): 151 x 65 x 94 (99) |
| 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 FGHL 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 : ± 1.6%

Faston 6.3 mm



SSLA Products

FGHL series

12FGHL34
12 Volt
9 Ah

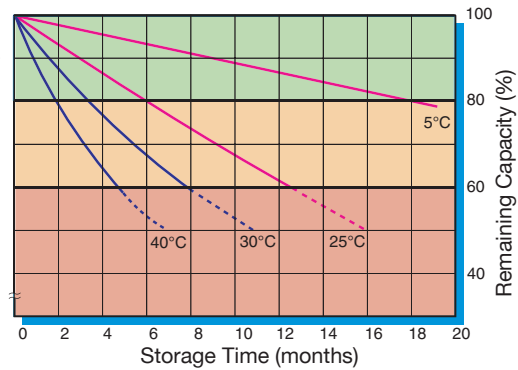


Capacity loss during storage at various temperatures

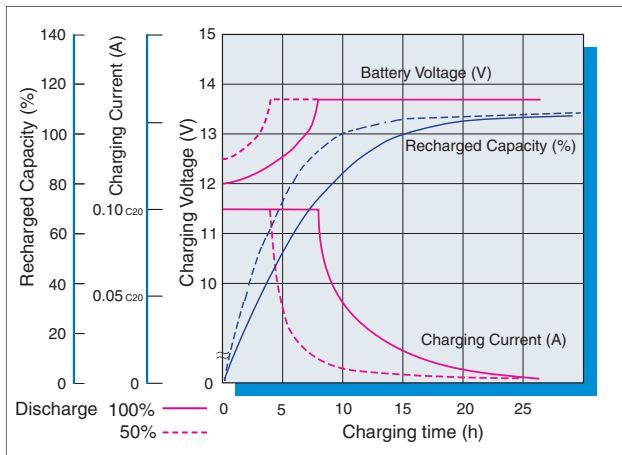
The battery can be used without refreshing charge

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

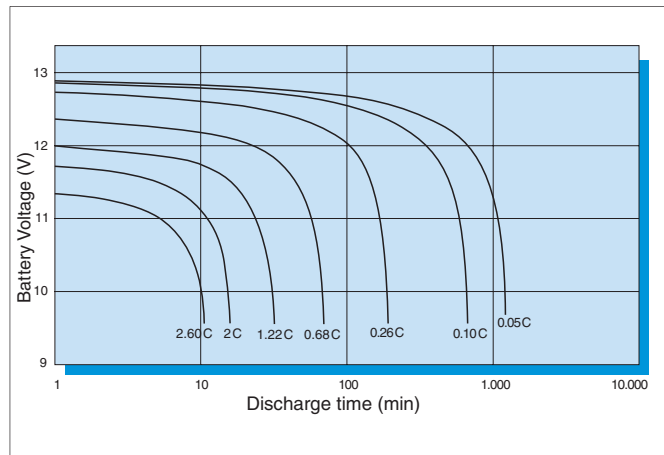
Refreshing charge of 2.4 Vpc may be insufficient to recover the battery capacity. It is important to avoid this area



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 | 37.7 | 25.8 | 19.2 | 15.2 | 10.9 | 7.66 | 5.63 | 3.04 | 2.14 | 1.37 |
| 9.90 V | 37.4 | 25.5 | 19.0 | 15.1 | 10.8 | 7.61 | 5.59 | 3.02 | 2.13 | 1.36 |
| 10.02 V | 37.2 | 25.3 | 18.9 | 15.0 | 10.8 | 7.58 | 5.57 | 3.00 | 2.11 | 1.36 |
| 10.20 V | 36.8 | 25.1 | 18.6 | 14.8 | 10.7 | 7.53 | 5.53 | 2.97 | 2.09 | 1.35 |
| 10.50 V | 36.1 | 24.6 | 18.1 | 14.5 | 10.5 | 7.41 | 5.44 | 2.90 | 2.05 | 1.33 |
| 10.80 V | 35.1 | 23.8 | 17.5 | 14.1 | 10.3 | 7.27 | 5.33 | 2.85 | 1.98 | 1.26 |

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 | 377 | 264 | 201 | 163 | 119 | 85.2 | 63.4 | 34.7 | 24.6 | 15.9 |
| 9.90 V | 375 | 263 | 200 | 162 | 119 | 84.9 | 63.1 | 34.5 | 24.5 | 15.8 |
| 10.02 V | 374 | 262 | 199 | 161 | 118 | 84.7 | 62.9 | 34.4 | 24.4 | 15.8 |
| 10.20 V | 371 | 260 | 197 | 160 | 117 | 84.2 | 62.5 | 34.0 | 24.2 | 15.7 |
| 10.50 V | 365 | 255 | 193 | 157 | 116 | 83.3 | 61.7 | 33.4 | 23.9 | 15.6 |
| 10.80 V | 356 | 248 | 188 | 154 | 114 | 82.1 | 60.8 | 33.0 | 23.1 | 14.8 |

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