

# FIAMM

Industrial Batteries

# FGHL

series



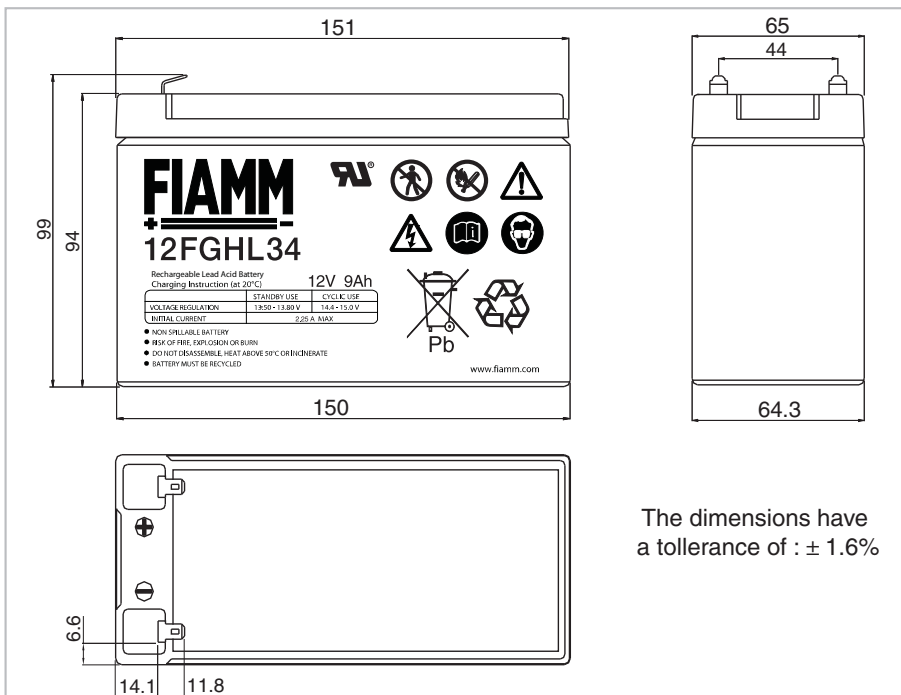
## 12FGHL34

### 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.

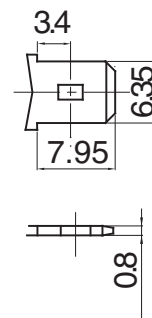
#### Features

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	2.25 A
Case	ABS UL94V-0 (flame retardant plastic)
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



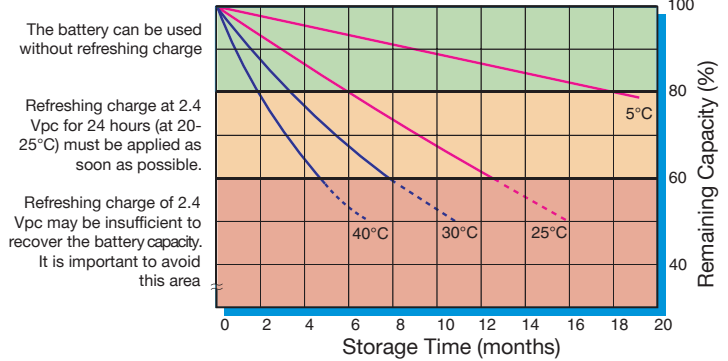
# SSLA Products

# FGHL series

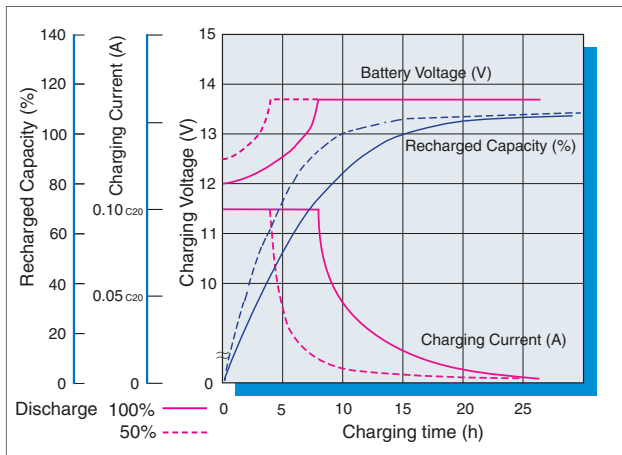
**12FGHL34**  
**12 Volt**  
**9 Ah**



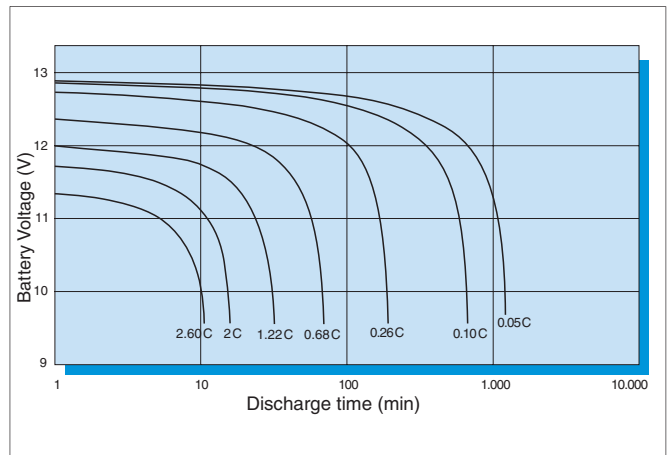
**Capacity loss during storage at various temperatures**



**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	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

**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	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

FIAMM S.p.A.  
 Industrial Batteries Business Unit  
 SSLA Products  
 www.fiamm.com  
 e-mail: info.standby@fiamm.com



Industrial Batteries