

# FIAMM

Industrial Batteries

# FGHL

series



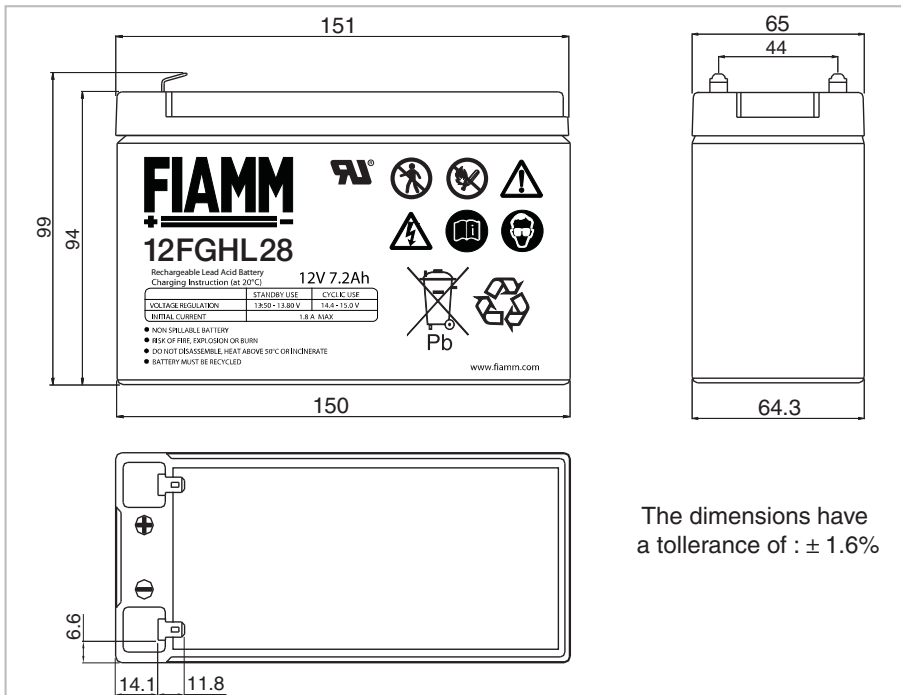
## 12FGHL28

### 12 Volt 7.2 Ah

12FGHL28 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.

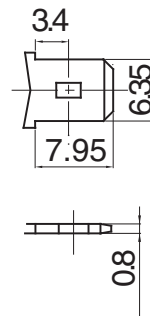
#### Features

Nominal Voltage	12 Volt
Nominal Capacity	26.7 W @ 15 min-rate to 1.6 Vpc at 25 °C 7.2 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	1.8 A
Case	ABS with HB fiammability rate (according UL 94)
Internal resistance	24.6 mΩ in full charged condition
Weight	2.65 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

**12FGHL28**  
**12 Volt**  
**7.2 Ah**

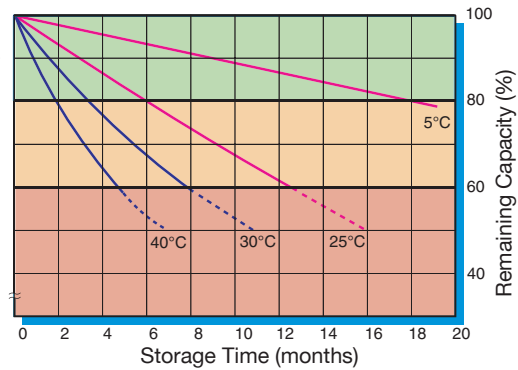


**Capacity loss during storage at various temperatures**

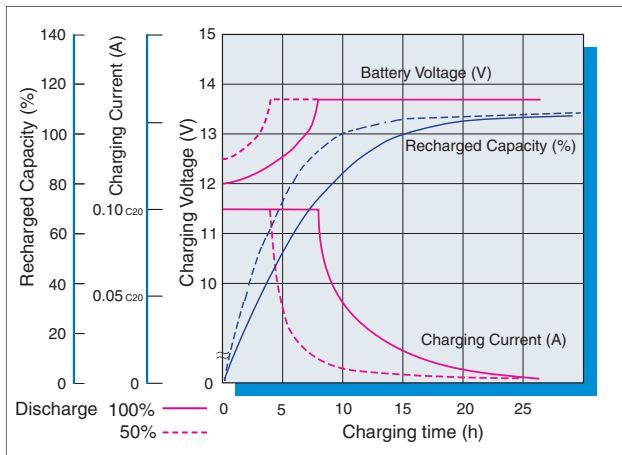
The battery can be used without refreshing charge

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

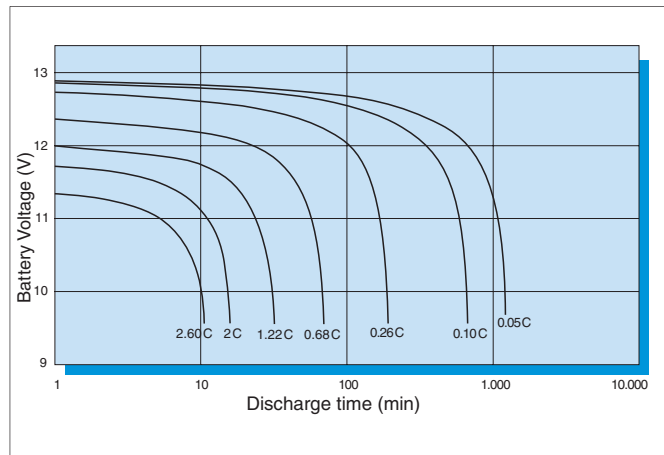
Refreshing charge of 2.4 Vpc may be insufficient to recover the battery capacity. It is important to avoid this area



**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	30.8	20.5	15.3	12.4	9.03	6.57	5.25	2.96	2.13	1.39
9.90 V	29.8	20.0	15.0	12.1	8.92	6.49	5.19	2.93	2.11	1.37
10.02 V	29.3	19.7	14.9	12.0	8.85	6.46	5.16	2.90	2.09	1.36
10.20 V	28.5	19.4	14.7	12.0	8.79	6.43	5.13	2.88	2.08	1.35
10.50 V	27.4	18.9	14.3	11.7	8.66	6.35	5.07	2.82	2.04	1.32
10.80 V	26.0	18.3	14.0	11.5	8.50	6.23	5.00	2.78	2.01	1.30

**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	308	210	160	131	94.8	70.2	56.8	33.8	24.5	16.0
9.90 V	299	207	158	129	93.8	69.6	56.3	33.5	24.3	15.9
10.02 V	295	204	157	128	93.3	69.3	56.0	33.2	24.2	15.8
10.20 V	287	201	155	127	92.8	69.0	55.8	33.0	24.1	15.7
10.50 V	276	196	152	126	91.7	68.5	55.2	32.6	23.7	15.5
10.80 V	264	191	150	124	90.7	67.6	54.7	32.2	23.5	15.3

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