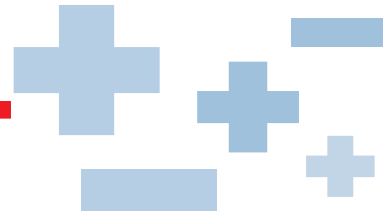


# FIAMM

Industrial Batteries

# FGHL

series



### Valve Regulated lead-acid batteries

- + Special design for **UPS application**;
- + Suitable also for Security Systems, toys and light traction application;
- + Top performance for High rate discharge;
- + High consistency and reliability;

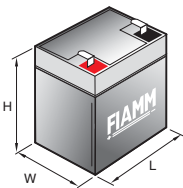
**Case Material:** ABS UL94V-0 (flame retardant plastic)

**Life Expectancy:** 10 years according to Eurobat standards

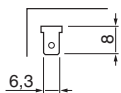
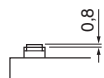
| Type     | Nominal voltage (V) | CAPACITY (Ah)<br>Discharge 20 h rate 1.75V/cell. | Weight (gr) | DIMENSION (mm) |    |     |     | Internal Resistance (of full charged Battery) | Max discharge current 5" (A) | TEMP. (°C)                     |             |             | Charge Voltage (V) |             | Max charge current (A) | Terminal Type |
|----------|---------------------|--|-------------|----------------|----|-----|-----|---|------------------------------|--------------------------------|-------------|-------------|--------------------|-------------|------------------------|---------------|
|          |                     |  |             | L              | W  | H   | TH  |   |                              | Charge                         | Discharge   | Storage     | Cyclic Use         | Float Use   |                        |               |
| 12FGHL22 | 12                  | 5.0  | 2000        | 90             | 70 | 101 | 107 | 37 mΩ   | 70                           | 0 ÷ 40<br>-20 ÷ 50<br>-20 ÷ 50 | 14.4 ÷ 14.7 | 13.5 ÷ 13.8 | 1.25               | FAST-ON 6.3 |                        |               |
| 12FGHL28 | 12                  | 7.2  | 2650        | 151            | 65 | 94  | 100 | 24.6 mΩ                                       | 102                          |                                |             |             | 1.80               | FAST-ON 6.3 |                        |               |
| 12FGHL34 | 12                  | 9.0  | 2900        | 151            | 65 | 94  | 100 | 23.6 mΩ                                       | 128                          |                                |             |             | 2.25               | FAST-ON 6.3 |                        |               |
| 12FGHL48 | 12                  | 12   | 4350        | 151            | 98 | 95  | 100 | 24.8 mΩ                                       | 170                          |                                |             |             | 3.00               | FAST-ON 6.3 |                        |               |

### Terminal Type

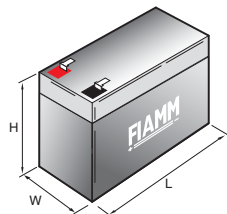
12FGHL22



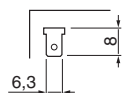
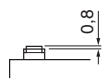
■ Faston 6.3



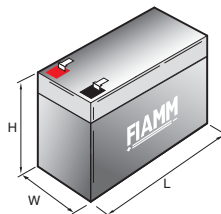
12FGHL28



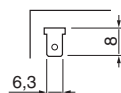
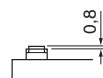
■ Faston 6.3



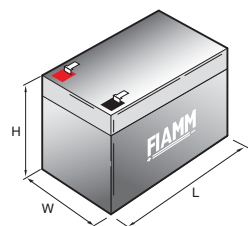
12FGHL34



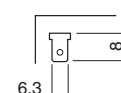
■ Faston 6.3



12FGHL48



■ Faston 6.3



SSLA Products



## Constant Power discharge table (Watts per bloc) Temperature: 25°C

### 12FGHL22

| Final Voltage | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 hour |
|---------------|-------|--------|--------|--------|--------|--------|--------|
| 1.6 V/Cell    | 235   | 170    | 126    | 102    | 75.2   | 54.9   | 43.9   |
| 1.67 V/Cell   | 230   | 164    | 125    | 101    | 74.7   | 54.8   | 43.8   |
| 1.7 V/Cell    | 223   | 160    | 123    | 99     | 74.1   | 54.5   | 43.6   |
| 1.8 V/Cell    | 200   | 146    | 114    | 95     | 71.8   | 51.7   | 41.3   |

### 12FGHL28

| Final Voltage | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 hour |
|---------------|-------|--------|--------|--------|--------|--------|--------|
| 1.6 V/Cell    | 308   | 210    | 160    | 131    | 94.8   | 70.2   | 56.8   |
| 1.67 V/Cell   | 295   | 204    | 157    | 128    | 93.3   | 69.3   | 56.0   |
| 1.7 V/Cell    | 287   | 201    | 155    | 127    | 92.8   | 69.0   | 55.8   |
| 1.8 V/Cell    | 264   | 191    | 150    | 124    | 90.7   | 67.6   | 54.7   |

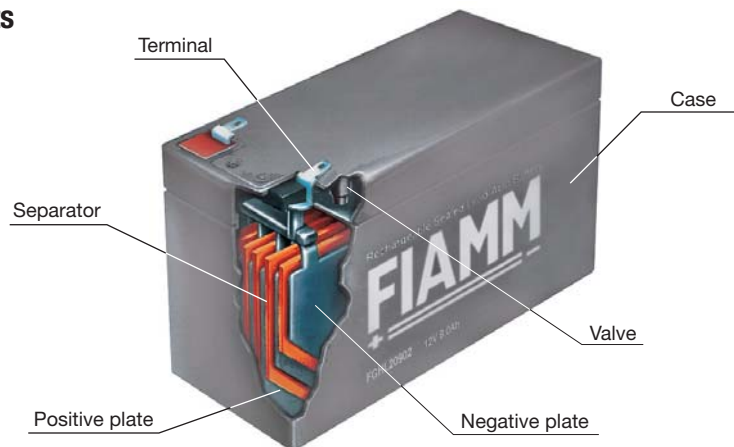
### 12FGHL34

| Final Voltage | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 hour |
|---------------|-------|--------|--------|--------|--------|--------|--------|
| 1.6 V/Cell    | 377   | 264    | 201    | 163    | 119    | 85.2   | 63.4   |
| 1.67 V/Cell   | 374   | 262    | 199    | 161    | 118    | 84.7   | 62.9   |
| 1.7 V/Cell    | 371   | 260    | 197    | 160    | 117    | 84.2   | 62.5   |
| 1.8 V/Cell    | 356   | 248    | 188    | 154    | 114    | 82.1   | 60.8   |

### 12FGHL48

| Final Voltage | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 hour |
|---------------|-------|--------|--------|--------|--------|--------|--------|
| 1.6 V/Cell    | 486   | 341    | 260    | 210    | 154    | 110    | 81.8   |
| 1.67 V/Cell   | 483   | 338    | 257    | 208    | 153    | 109    | 81.3   |
| 1.7 V/Cell    | 479   | 336    | 254    | 206    | 152    | 109    | 80.8   |
| 1.8 V/Cell    | 460   | 321    | 243    | 199    | 147    | 106    | 78.5   |

## Battery Components



FIAMM reserves the right to change or revise without notice any information or detail given in this publication  
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