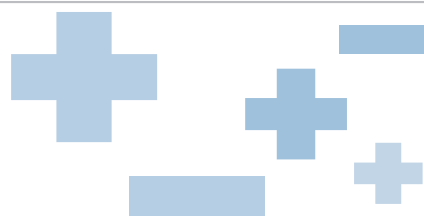


# FIAMM

Industrial Batteries

# FG

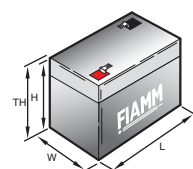
series



## Valve Regulated Lead-Acid batteries

All FIAMM batteries have been specifically developed to enhance economy of operation, reliability and energy output. The values reached in these areas position FIAMM batteries on the top of the market, representing the ideal solution for all applications.

### TPF\*: Terminal Position Figure



- Faston
- Round (Threaded inserted)
- Wire + Connector
- Bolt and Nut



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

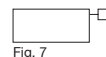


Fig. 7



Fig. 8



Fig. 9

| Model     | VdS | Nominal voltage (V) | Capacity (Ah)                  |                                |                               |                                 | Weight (gr) | TPF* | Dimensions (mm) |      |     |     | Max discharge current 5" (A) | Temp. (°C) |           |          | Max charge current (A) | Terminal Type     |
|-----------|-----|---------------------|--------------------------------|--------------------------------|-------------------------------|---------------------------------|-------------|------|-----------------|------|-----|-----|------------------------------|------------|-----------|----------|------------------------|-------------------|
|           |     |                     | Discharge 20 h rate 1.75V/cell | Discharge 10 h rate 1.75V/cell | Discharge 5 h rate 1.70V/cell | Discharge 1.5 h rate 1.60V/cell |             |      | L               | W    | H   | TH  |                              | Charge     | Discharge | Storage  |                        |                   |
| FG10121   |     | 6                   | 1.2                            | 1.08                           | 1.00                          | 0.78                            | 315         | 6    | 97              | 24.5 | 50  | 56  | 12                           | 0 ÷ 40     | -20 ÷ 50  | -20 ÷ 50 | 0.3                    | FAST-ON 4.8       |
| FG10301   | ●   | 6                   | 3.0                            | 2.7                            | 2.55                          | 1.95                            | 715         | 2    | 134             | 34   | 60  | 67  | 30                           |            |           |          | 0.75                   | FAST-ON 4.8       |
| FG10381   |     | 6                   | 3.8                            | 2.88                           | 2.72                          | 2.08                            | 720         | 3    | 66              | 33   | 118 | 125 | 38                           |            |           |          | 0.95                   | FAST-ON 4.8       |
| FG10451   |     | 6                   | 4.5                            | 3.6                            | 3.4                           | 2.6                             | 725         | 1    | 70              | 47   | 100 | 106 | 45                           |            |           |          | 1.13                   | FAST-ON 4.8       |
| FG10501   |     | 6                   | 5.0                            | 4.0                            | 3.8                           | 2.9                             | 820         | 1    | 70              | 47   | 100 | 106 | 50                           |            |           |          | 1.25                   | FAST-ON 4.8       |
| FG10721   |     | 6                   | 7.2                            | 6.3                            | 5.95                          | 4.55                            | 1225        | 3    | 151             | 34   | 94  | 99  | 72                           |            |           |          | 1.8                    | FAST-ON 4.8       |
| FG11201/2 | ●   | 6                   | 12                             | 10.8                           | 9.6                           | 7.5                             | 1900        | 2    | 151             | 50   | 94  | 99  | 120                          |            |           |          | 3                      | FAST-ON 4.8 / 6.3 |

|           |   |    |     |      |      |      |      |   |     |      |      |     |     |        |          |          |      |                   |
|-----------|---|----|-----|------|------|------|------|---|-----|------|------|-----|-----|--------|----------|----------|------|-------------------|
| FG20086   |   | 12 | 0.8 | 0.72 | 0.63 | 0.53 | 350  | 7 | 96  | 25   | 62   | 62  | 8   | 0 ÷ 40 | -20 ÷ 50 | -20 ÷ 50 | 0.2  | WIRE+CONNECTOR    |
| FG20121   | ● | 12 | 1.2 | 1.06 | 0.98 | 0.8  | 600  | 4 | 97  | 48.5 | 50.5 | 55  | 12  |        |          |          | 0.3  | FAST-ON 4.8       |
| FG20121A  | ● | 12 | 1.2 | 1.08 | 1.0  | 0.78 | 600  | 4 | 97  | 42   | 51   | 59  | 12  |        |          |          | 0.3  | FAST-ON 4.8       |
| FG20201   | ● | 12 | 2.0 | 1.83 | 1.65 | 1.37 | 930  | 2 | 178 | 34   | 60   | 65  | 20  |        |          |          | 0.5  | FAST-ON 4.8       |
| FG20271   |   | 12 | 2.7 | 2.43 | 2.25 | 1.76 | 1130 | 3 | 79  | 55.5 | 102  | 106 | 27  |        |          |          | 0.68 | FAST-ON 4.8       |
| FG20341   |   | 12 | 3.4 | 3.0  | 2.9  | 2.2  | 1410 | 4 | 134 | 67   | 60   | 65  | 34  |        |          |          | 0.85 | FAST-ON 4.8       |
| FG20451   |   | 12 | 4.5 | 4.1  | 3.8  | 3.0  | 1580 | 3 | 90  | 70   | 102  | 106 | 45  |        |          |          | 1.13 | FAST-ON 4.8       |
| FG20721/2 | ● | 12 | 7.2 | 6.7  | 6.0  | 5.0  | 2450 | 4 | 151 | 65   | 94   | 99  | 72  |        |          |          | 1.8  | FAST-ON 4.8 / 6.3 |
| FG21201/2 | ● | 12 | 12  | 11.3 | 10   | 8.4  | 3750 | 4 | 151 | 98   | 94   | 99  | 120 |        |          |          | 3    | FAST-ON 4.8 / 6.3 |
| FG21703   | ● | 12 | 17  | 15.5 | 13.9 | 11.2 | 5900 | 8 | 181 | 76   | 167  | 167 | 170 |        |          |          | 4.25 | FLAG Ø 5.5        |
| FG21803   |   | 12 | 18  | 16.9 | 15   | 12.7 | 5900 | 8 | 181 | 76   | 167  | 167 | 180 |        |          |          | 4.5  | FLAG Ø 5.5        |

|                   |           |   |    |     |      |      |      |       |     |     |     |     |     |      |        |          |          |      |                       |
|-------------------|-----------|---|----|-----|------|------|------|-------|-----|-----|-----|-----|-----|------|--------|----------|----------|------|-----------------------|
| EXTENDED LIFETIME | FG22703/5 | ● | 12 | 27  | 24.4 | 22.1 | 18.4 | 8500  | 8/5 | 166 | 175 | 125 | 125 | 270  | 0 ÷ 40 | -20 ÷ 50 | -20 ÷ 50 | 6.8  | FLAG Ø 5.5 / ROUND M5 |
|                   | FG24204/7 | ● | 12 | 42  | 37.9 | 34.4 | 28.5 | 13800 | 8/5 | 196 | 163 | 174 | 174 | 400  |        |          |          | 10.5 | FLAG Ø 6.5 / ROUND M6 |
|                   | FG25507   |   | 12 | 55  | 49.6 | 45   | 37.3 | 18500 | 5   | 229 | 138 | 212 | 212 | 500  |        |          |          | 13.8 | ROUND M6              |
|                   | FG26505/7 | ● | 12 | 65  | 58.3 | 54   | 45.1 | 23200 | 5   | 271 | 166 | 190 | 190 | 580  |        |          |          | 16.3 | ROUND M5 / ROUND M6   |
|                   | FG27004/7 | ● | 12 | 70  | 64.4 | 58.5 | 47.4 | 22600 | 8/5 | 350 | 166 | 174 | 174 | 600  |        |          |          | 17.5 | FLAG Ø 6.5 / ROUND M6 |
|                   | FG28009   |   | 12 | 80  | 73   | 66.9 | 54.2 | 27200 | 5   | 260 | 169 | 212 | 212 | 650  |        |          |          | 20   | ROUND M8              |
|                   | FG2A007   |   | 12 | 100 | 94   | 85   | 70.8 | 32400 | 5   | 329 | 172 | 214 | 221 | 750  |        |          |          | 25   | ROUND M6              |
|                   | FG2C007   |   | 12 | 120 | 112  | 102  | 85   | 38000 | 5   | 407 | 173 | 215 | 225 | 800  |        |          |          | 30   | ROUND M6              |
|                   | FG2F009   |   | 12 | 150 | 141  | 127  | 106  | 46800 | 5   | 485 | 170 | 241 | 241 | 900  |        |          |          | 38   | ROUND M8              |
|                   | FG2M009   |   | 12 | 200 | 188  | 170  | 141  | 70000 | 9   | 520 | 260 | 204 | 214 | 1000 |        |          |          | 50   | ROUND M8              |

SSLA Products

## Constant Current discharge table (Amperes)

Final Voltage: 1.65 V/cell - Temperature: 25°C

| Model     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 hour | 2 hours | 3 hours | 5 hours | 10 hours | 20 hours |
|-----------|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|----------|----------|
| FG20721   | 27.1  | 18.3   | 13.8   | 11.1   | 8.11   | 5.91   | 4.73   | 2.66    | 1.88    | 1.21    | 0.67     | 0.37     |
| FG21201/2 | 38    | 26.9   | 20.7   | 16.7   | 12.5   | 9.21   | 7.42   | 4.23    | 3.14    | 2.02    | 1.12     | 0.62     |
| FG21803   | 58.3  | 39.3   | 29.7   | 24.1   | 17.9   | 13.3   | 10.8   | 6.28    | 4.61    | 3.06    | 1.7      | 0.93     |
| FG22703/5 | 84.5  | 60.6   | 47.7   | 39.4   | 28.7   | 21.1   | 17.6   | 9.68    | 6.93    | 4.54    | 2.53     | 1.39     |
| FG24204/7 | 146   | 101    | 76.5   | 62.7   | 46.9   | 34     | 26.7   | 14.6    | 10.5    | 6.97    | 3.87     | 2.16     |
| FG25507   | 176   | 128    | 98.7   | 80.5   | 59.8   | 43.6   | 34.2   | 19.3    | 13.9    | 9.2     | 5.1      | 2.81     |
| FG26505   | 208   | 152    | 117    | 95.2   | 70.6   | 51.5   | 40.5   | 22.8    | 16.4    | 10.9    | 6.03     | 3.32     |
| FG27004/7 | 224   | 164    | 126    | 102    | 76.1   | 55.5   | 43.6   | 24.5    | 17.7    | 11.7    | 6.49     | 3.58     |
| FG28009   | 247   | 181    | 148    | 122    | 90.9   | 65.8   | 51.7   | 28.7    | 20.4    | 13.4    | 7.58     | 4.07     |
| FG2A007   | 309   | 226    | 186    | 152    | 114    | 82.2   | 64.7   | 35.9    | 25.5    | 16.7    | 9.47     | 5.09     |
| FG2C007   | 371   | 271    | 223    | 183    | 136    | 98.7   | 77.6   | 43.1    | 30.6    | 20.1    | 11.4     | 6.11     |
| FG2F009   | 464   | 339    | 278    | 228    | 170    | 123    | 97     | 53.8    | 38.3    | 25.1    | 14.2     | 7.63     |
| FG2M009   | 618   | 452    | 371    | 304    | 227    | 164    | 129    | 71.8    | 51      | 33.4    | 18.9     | 10.2     |

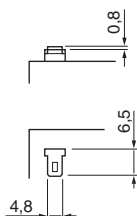
## Constant Power discharge table (Watts per bloc)

Final Voltage: 1.65 V/cell - Temperature: 25°C

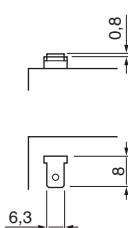
| Model     | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 hour | 2 hours | 3 hours | 5 hours | 10 hours | 20 hours |
|-----------|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|----------|----------|
| FG20721   | 272   | 189    | 146    | 119    | 88.8   | 65.9   | 53.3   | 30.5    | 21.7    | 14.1    | 7.84     | 4.34     |
| FG21201/2 | 382   | 278    | 218    | 179    | 137    | 103    | 83.8   | 48.4    | 36.2    | 23.4    | 13.1     | 7.23     |
| FG21803   | 585   | 406    | 313    | 258    | 196    | 148    | 122    | 71.8    | 53.1    | 35.5    | 19.8     | 10.9     |
| FG22703/5 | 848   | 626    | 503    | 423    | 314    | 235    | 199    | 111     | 79.9    | 52.7    | 29.4     | 16.3     |
| FG24204/7 | 1469  | 1040   | 806    | 673    | 513    | 379    | 301    | 167     | 121     | 81      | 45.1     | 25.2     |
| FG25507   | 1768  | 1327   | 1039   | 864    | 654    | 487    | 387    | 220     | 160     | 107     | 59.4     | 32.9     |
| FG26505   | 2089  | 1568   | 1228   | 1021   | 773    | 575    | 457    | 261     | 189     | 126     | 70.2     | 38.8     |
| FG27004/7 | 2250  | 1688   | 1322   | 1100   | 833    | 619    | 492    | 281     | 204     | 136     | 75.6     | 41.8     |
| FG28009   | 2595  | 1938   | 1607   | 1326   | 1000   | 729    | 577    | 324     | 231     | 153     | 87       | 47       |
| FG2A007   | 3244  | 2423   | 2009   | 1658   | 1250   | 912    | 721    | 405     | 289     | 191     | 109      | 58.7     |
| FG2C007   | 3893  | 2907   | 2411   | 1990   | 1500   | 1094   | 865    | 486     | 347     | 229     | 131      | 70.5     |
| FG2F009   | 4866  | 3634   | 3014   | 2487   | 1875   | 1367   | 1081   | 607     | 434     | 286     | 163      | 88.1     |
| FG2M009   | 6488  | 4846   | 4018   | 3316   | 2500   | 1823   | 1442   | 810     | 579     | 382     | 218      | 117      |

## Terminal type (last digit of model number)

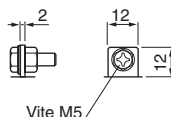
■ Type 1  
Faston 4.8



■ Type 2  
Faston 6.3

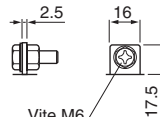


■ Type 3  
Flag M5



■ Type 5 / 7 / 9  
Round  
M5 / M6 / M8  
Threaded inserted

■ Type 4  
Flag M6



■ Type 6  
Wire and connector

