



# FGHL-series

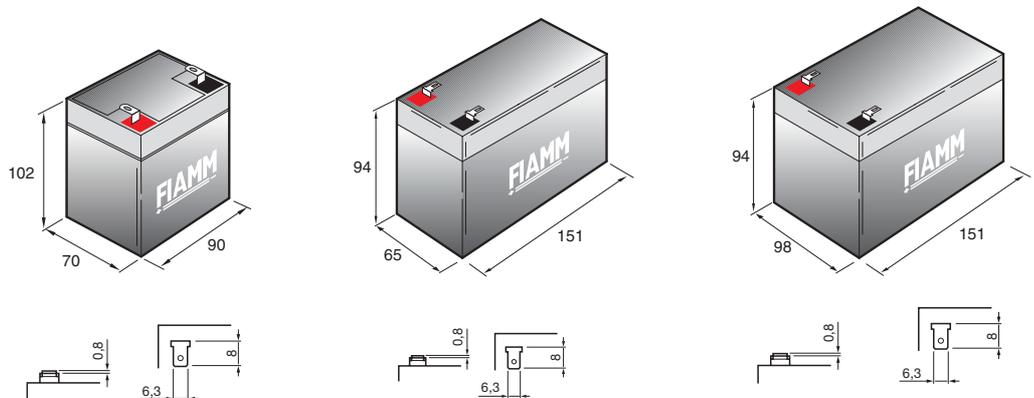
high-rate long life range

## Valve regulated lead-acid batteries

FIAMM FGHL battery range is specially designed for high efficient discharge application. It is a high power density range with a design life of 10 years. FIAMM FGHL valve regulated lead acid batteries are the ideal energy source for many different standby applications.

### Technical information

Battery Model		FGHL20502	FGHL20722	FGHL20902	FGHL21102
Nominal Voltage		12 Volts	12 Volts	12 Volts	12 Volts
Nominal Capacity		5.0 Ah	7.2 Ah	9.0 Ah	11 Ah
Dimensions		90x70x102 mm	151x65x94 mm	151x65x94 mm	151x98x94 mm
	with terminals	105 mm	99 mm	99 mm	99 mm
Weight		2.0 kg	2.7 kg	2.9 kg	4.3 kg
Internal Resistance of Fully Charged Battery		37 mΩ	24.6 mΩ	23.6 mΩ	24.8 mΩ
Maximum 5-second discharge current		70 A	102 A	128 A	170 A
Charge Voltage	Cyclic use	14.4 - 14.7 V	14.4 - 14.7V	14.4 - 14.7 V	14.4 - 14.7V
	Float use	13.5 - 13.8 V	13.5 - 13.8 V	13.5 - 13.8 V	13.5 - 13.8 V
Maximum Charge Current		1.25 A (C/4)	1.8 A (C/4)	2.25 A (C/4)	3 A (C/4)
Terminals		Fast-on 6.3 (US: F2)	Fast-on 6.3	Fast-on 6.3	Fast-on 6.3
Shelf Life at 20°C	1 month	97%	97%	97%	97%
	3 months	91%	91%	91%	91%
	6 months	82%	82%	82%	82%
Storage Temperature		-20°C to 40°C	-20°C to 40°C	-20°C to 40°C	-20°C to 40°C
Operating Temperature	Charge	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
	Discharge	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C
Case Material		UL-94 10 years (V0 plastic)			
Life Expectancy		10 years according to Eurobat standards			





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### Typical discharge power at 25°C (W)

FGHL20502 12V 5Ah					
Time	5'	10'	15'	30'	60'
1.6 V/Cell	163	118	90.3	52.9	31.4
1.7 V/Cell	153	113	87.3	52.1	31.1
1.8 V/Cell	133	99.8	79.5	49.6	29.1

FGHL20722 12V 7.2Ah					
Time	5'	10'	15'	30'	60'
1.6 V/Cell	269	184	140	86.2	51.6
1.7 V/Cell	251	176	136	84.3	50.7
1.8 V/Cell	231	167	131	82.5	49.8

FGHL20902 12V 9Ah					
Time	5'	10'	15'	30'	60'
1.6 V/Cell	336	229	175	108	64.5
1.7 V/Cell	314	220	170	105	63.4
1.8 V/Cell	288	209	164	103	62.2

FGHL21102 12V 11Ah					
Time	5'	10'	15'	30'	60'
1.6 V/Cell	411	280	214	132	78.8
1.7 V/Cell	383	269	207	129	77.4
1.8 V/Cell	352	255	200	126	76.0



**FIAMM S.p.A.**  
**Industrial Batteries Business Unit**  
**SSLA Products**

36075 Montecchio Maggiore - VICENZA - ITALY  
 Tel. +39 0444 709350 (r.a.) - Fax +39 0444 709360  
<http://www.fiamm.com> - [info.standby@fiamm.com](mailto:info.standby@fiamm.com)

