

FGH-series

high-rate discharge range

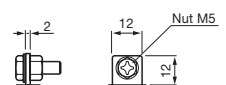
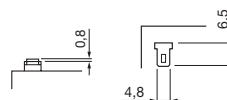
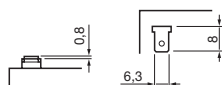
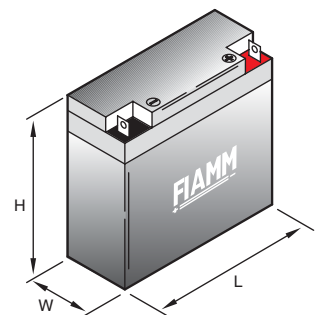
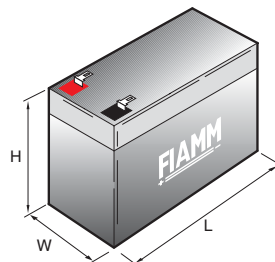
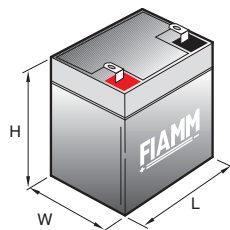
Valve regulated lead-acid batteries

With greater demand for smaller, more powerful UPS units, Fiamm introduces a new generation of high-rate discharge VRLA products. These five-year batteries offer a 40% higher discharge rate than existing models.



Technical information

Battery Model	FGH20502	FGH20501A	FGH20902	FGH21202	FGH21803
Nominal Voltage	12 Volts	12 Volts	12 Volts	12 Volts	12 Volts
Nominal Capacity	5.0 Ah	5.0 Ah	9.0 Ah	12 Ah	18 Ah
Dimensions	90x70x102 mm	151x51x94 mm	151x65x94 mm	151x98x94 mm	181x76x167 mm
with terminals	105 mm	100 mm	99 mm	99 mm	167 mm
Weight	2.0 kg	2.0 kg	2.8 kg	4.2 kg	6.4 kg
Internal Resistance of Fully Charged Battery	37 mΩ	37 mΩ	23.6 mΩ	14.8 mΩ	9.8 mΩ
Maximum 5-second discharge current	75 amperes	75 amperes	135 amperes	180 amperes	278 amperes
Charge Voltage	Cyclic use 14.4 - 14.7 V	Cyclic use 14.4 - 14.7 V	Cyclic use 14.4 - 14.7 V	Cyclic use 14.4 - 14.7 V	Cyclic use 14.4 - 14.7 V
Float use	13.5 - 13.8 V	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)	1.25 A (C/4)	2.25 A (C/4)	3 A	4.50 A
Terminals	Fast-on 6.3	Fast-on 4.8	Fast-on 6.3	Fast-on 6.3	Bolt & Nut M5
Shelf Life at 20°C	1 month 97%	1 month 97%	1 month 97%	1 month 97%	1 month 97%
	3 months 91%	3 months 91%	3 months 91%	3 months 91%	3 months 91%
	6 months 82%	6 months 82%	6 months 82%	6 months 82%	6 months 82%
Storage Temperature	-20°C to 40°C	-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	Charge 0°C to 40°C	Charge 0°C to 40°C	Charge 0°C to 40°C	Charge 0°C to 40°C
	Discharge -20°C to 50°C	Discharge -20°C to 50°C	Discharge -20°C to 50°C	Discharge -20°C to 50°C	Discharge -20°C to 50°C
Case Material	Acrylonitrile-Butadiene-Styrene (ABS)				
	UL-94 (V0 plastic available on request)				
Life Expectancy	5 years according to Eurobat standards				



FIAMM



- 1 Terminal
- 2 Valve
- 3 Separator
- 4 Case
- 5 Negative plate
- 6 Positive plate

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Typical discharge power at 25°C (W)

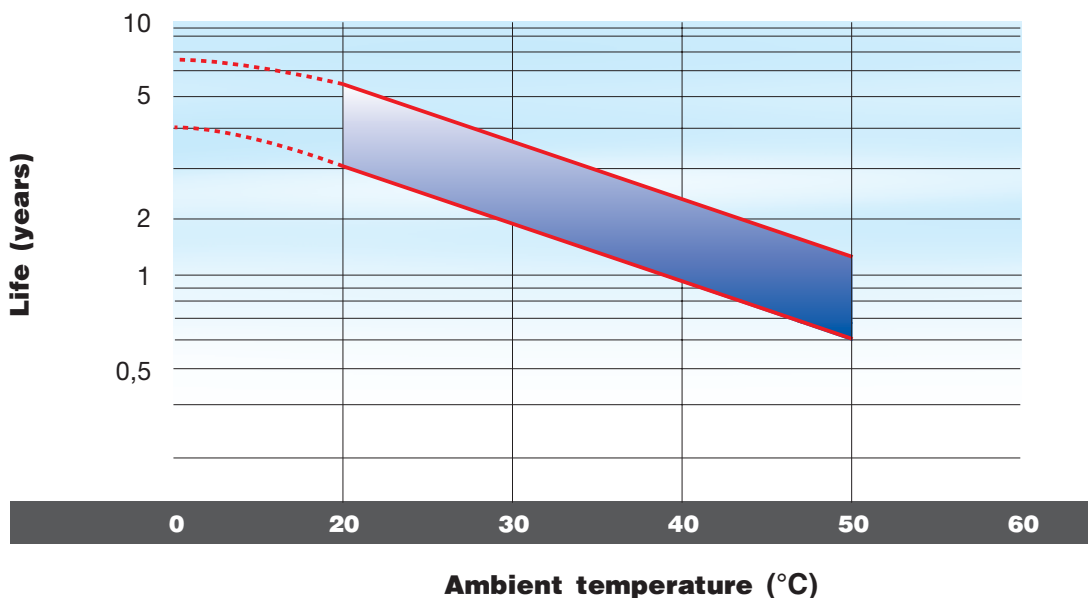
FGH20502 12V 5Ah					
Time	5'	10'	15'	30'	60'
1.8 V/Cell	166	121	94.3	59.5	34.2
1.7 V/Cell	185	133	102	61.4	36.1
1.6 V/Cell	195	141	105	62.3	36.4

FGH20902 12V 9Ah					
Time	5'	10'	15'	30'	60'
1.8 V/Cell	299	218	170	107	61.6
1.7 V/Cell	333	239	183	111	65.1
1.6 V/Cell	351	253	188	112	65.5

FGH21202 12V 12Ah					
Time	5'	10'	15'	30'	60'
1.8 V/Cell	384	278	218	137	82.9
1.7 V/Cell	418	293	226	141	84.5
1.6 V/Cell	448	306	233	144	86.0

FGH21803 12V 18Ah					
Time	5'	10'	15'	30'	60'
1.8 V/Cell	577	418	327	206	124
1.7 V/Cell	627	439	339	211	127
1.6 V/Cell	672	459	350	215	129

Life characteristics of stand-by use



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