



# FGH-series

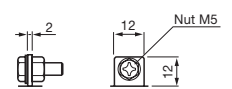
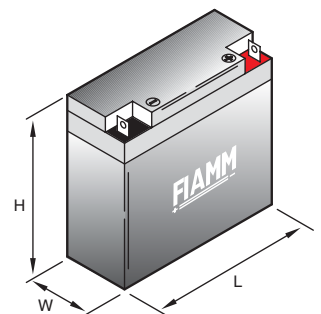
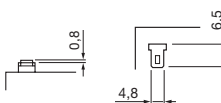
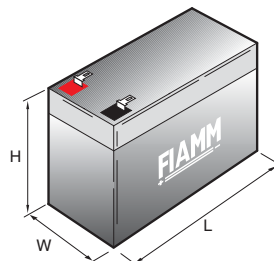
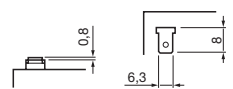
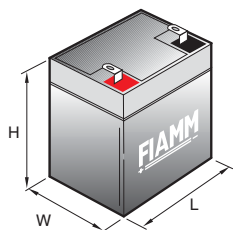
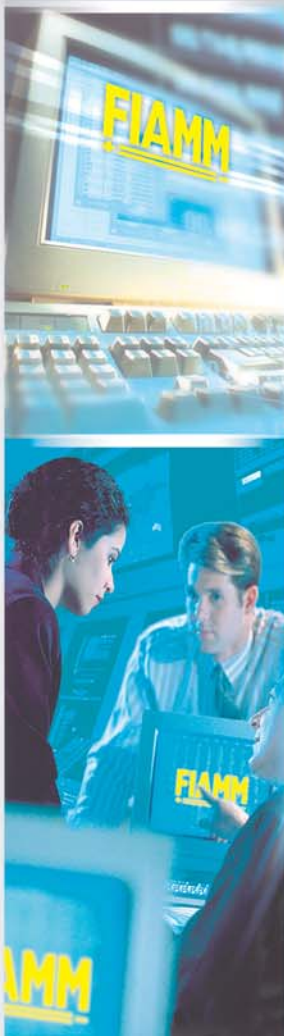
## high-rate discharge range

### 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
Energy Density		93.4 Wh/l	82.8 Wh/l	117 Wh/l	89 Wh/l	91 Wh/l
Specific Energy		30.0 Wh/kg	30.0 Wh/kg	28.9 Wh/kg	32.3 Wh/kg	33.7 Wh/kg
Internal Resistance of Fully Charged Battery		69 mΩ	69 mΩ	38 mΩ	28 mΩ	19 mΩ
Maximum discharge with standard terminals		30 amperes	30 amperes	54 amperes	72 amperes	108 amperes
Maximum 5-second discharge current		75 amperes	75 amperes	135 amperes	180 amperes	278 amperes
Charge Voltage	Cyclic use	14.4 - 14.7 V	14.4 - 14.7 V	14.4 - 14.7 V	14.4 - 14.7 V	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%	97%	97%	97%	97%
	3 months	91%	91%	91%	91%	91%
	6 months	82%	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	-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	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	-20°C to 50°C
Case Material		Acrylonitrile-Butadiene-Styrene (ABS)				
Life Expectancy		UL-94 (V0 plastic available on request)				
		5 years according to Eurobat standards				





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

## Valve regulated lead-acid batteries

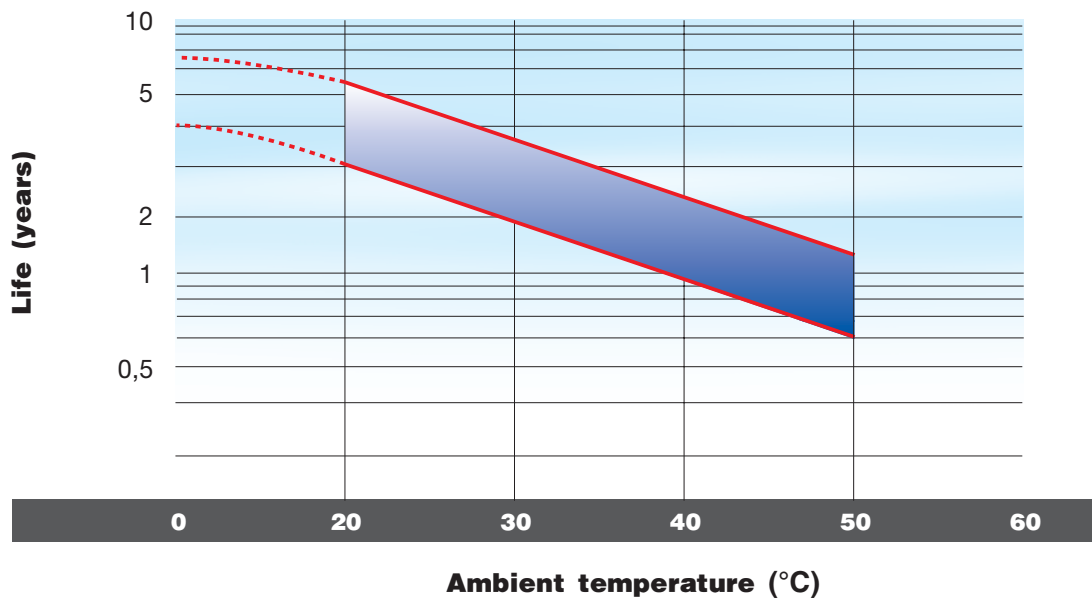
### Typical discharge power at 25°C (W)

FGH20502 12V 5Ah						
Time	5'	10'	15'	30'	60'	
1.8 V/Cell	275	185	130	85	48	
1.7 V/Cell	305	200	140	88	49	
1.6 V/Cell	320	205	142	90	50	

FGH20902 12V 9Ah						
Time	5'	10'	15'	30'	60'	
1.8 V/Cell	395	270	220	136	76	
1.7 V/Cell	420	285	225	138	78	
1.6 V/Cell	430	290	230	140	80	

FGH21803 12V 18Ah						
Time	5'	10'	15'	30'	60'	
1.8 V/Cell	684	497	397	254	156	
1.7 V/Cell	790	547	423	267	162	
1.6 V/Cell	850	570	440	270	163	

### Life characteristics of stand-by use



FIAMM Sealed Power S.p.A.  
 Viale Europa, 63  
 36075 Montebelluna Maggiore - VICENZA - ITALY  
 Tel. +39 0444 709311 (r.a.) - Fax +39 0444 709360  
<http://www.fiamm.com>

