

PERFORMANCE SPECIFICATION FOR BATTERY TYPE FGH 20502

HIGH RATE OF DISCHARGE

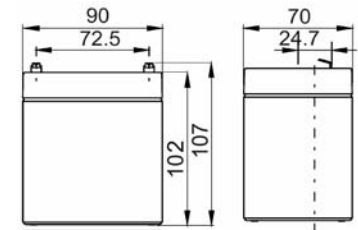
Nominal Voltage	12 Volts
Nominal Capacity	195W at 10 minutes rate to 9.6V @ 25°C
Dimensions (mm)	Length=90, Width=70, Height=102, TH=107
Approximate weight	2.0 Kg
Internal Resistance (Fully charged battery)	26 mΩ
Maximum discharge current in 5 seconds discharge	75 A
Recommended charging voltage (@20°C)	floating use: 13,5-13,8 Vcyclic use: 14,4-15,0 V
Thermal compensation factor	floating use: -18mV/°Ccyclic use: -30mV/°C
Maximum charging current	1.25 A
Terminals	Faston 6.3 mm
Vibration Test	
(2000 cycles/min, 2,55 mm excursion, 2 hrs)	No loss in capacity or performance
Shelf life - % of nominal capacity at 20°C	1 Month 97%
	3 months 91%
	6 months 83%
Storage temperature	-20°C to 40°C
Operative temperature range	Charge 0° C to 40°C
	Discharge -20°C to 50°C
Case material	Acrylonitrile-Butadiene-Styrene (ABS)
	Standard Case: according to UL-94 HB
	Also available: according to UL-94 VO
Life expectancy (Stand-by)	3 to 5 years according to Eurobat standards

Constant Power Discharge Table (Watt) @ 25°C

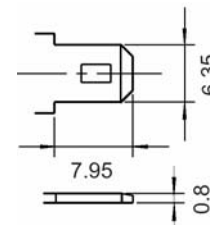
TIME	3'	5'	7'	10'	15'	30'	60'	90'
1,6V/Cell	399	309	255	195	147	94.0	51.3	38.1
1,7V/Cell	357	274	221	177	135	90.0	49.2	36.1
1,8V/Cell	308	229	189	153	123	84.0	48.6	33.2

Constant Current Discharge Table (Ampere) @ 25°C

TIME	3'	5'	7'	10'	15'	30'	60'	90'
1,6V/Cell	33.8	26.3	21.2	16.5	12.5	7.76	4.26	3.15
1,7V/Cell	30.2	23.9	18.6	14.9	11.4	7.49	4.11	2.99
1,8V/Cell	25.4	19.4	15.8	13.1	10.2	7.20	4.05	2.86



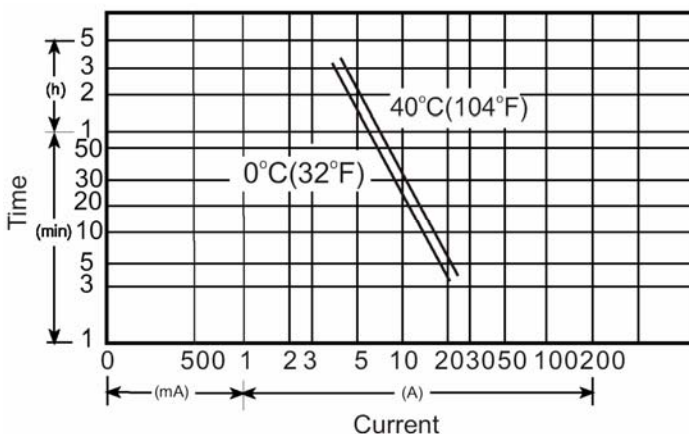
Battery dimensions (mm)



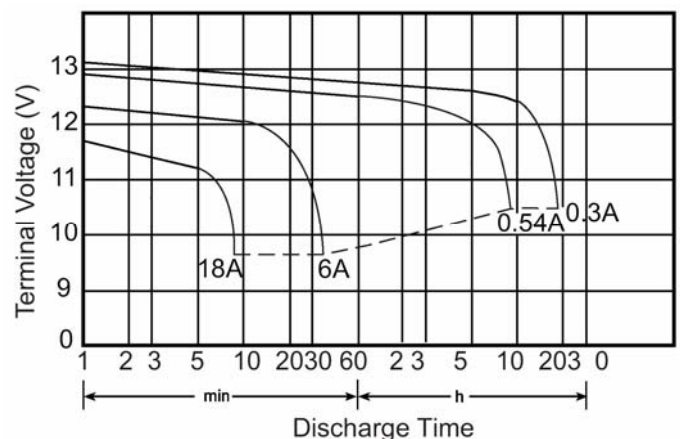
Terminals dimensions (mm)

The FIAMM Super Power Battery FGH SERIES is a VRLA battery (Valve Regulated Lead Acid) which has been specifically designed to guarantee higher power outputs during fast discharge applications. FGH models have been electrically modified through the use of additional plates. When compared with standard SLA battery, FGH 20502 provides up to 50% more power per kilogram.

DISCHARGE CURRENT VS TIME



DISCHARGE CHARACTERISTICS



FIAMM Sealed Power S.p.A.