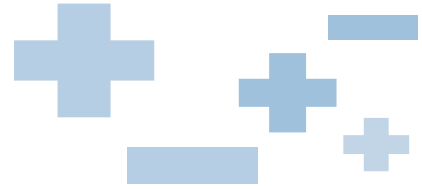


# FIAMM

Industrial Batteries

# FG series



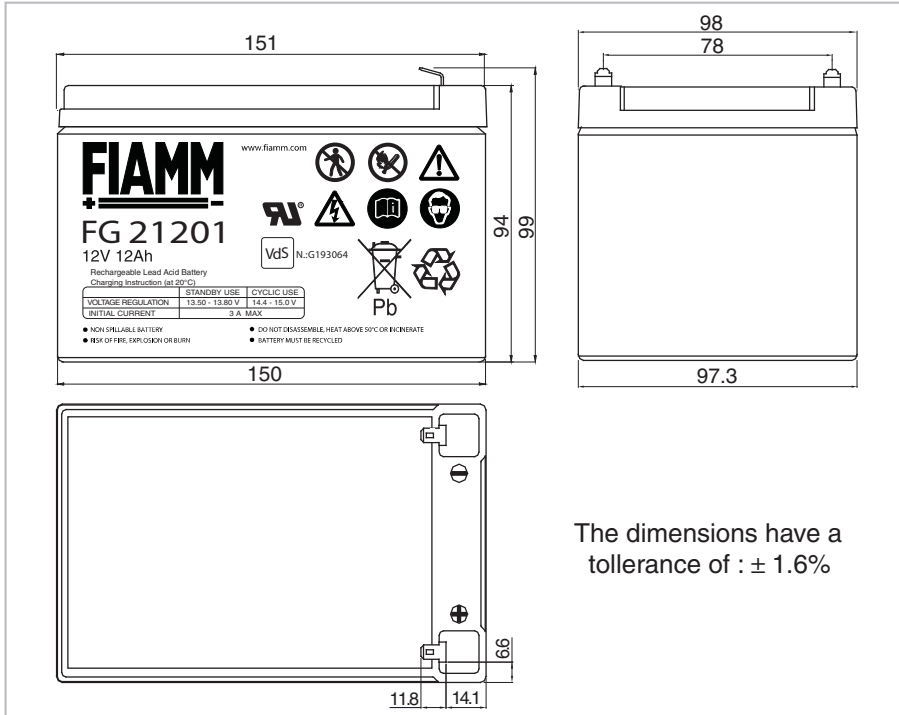
## FG21201

### 12 Volt 12 Ah

FG21201 is a general purpose application battery. Within the FG range FIAMM offer 6V and 12V monoblocs at various amp hour capacities enable the right battery selection for each requirement. FIAMM is a Manufacturer of VRLA batteries and is supported by a dedicated sales network with market knowledge and experience of small sealed lead acid battery applications.

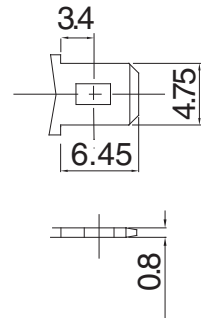
#### Features

Nominal Voltage	12 Volt
Nominal Capacity	12 Ah 20 hours rate to 1.75 Vpc at 25 °C
Float charging voltage	13.50 - 13.80 V/bloc at 25 °C
Boost charge voltage	14.40 - 15.00 V/bloc at 25 °C
Float voltage compensation	-18mV/°C
Maximum charging current	3 A
Case	ABS with HB fiammability rate (according UL 94)
Internal resistance	14.8 mΩ in full charged condition
Weight	3.75 kg
Dimensions	L x W x H (TH): 151 x 98 x 94 (99)
Operative temperature range	-20 °C to 50 °C
Shelf life procedures	As batteries lose part of their capacity, during storage, due to self discharge. Fiamm recommends FG range of batteries can be stored for 6 months at an ambient temperature of 20 and 25 °C (see attached graph on reverse). Longer storage requires a recharge. This should be carried out in line with Fiamm recommended method; 2.4 V/cell for no longer than 24 hours at 20 °C



The dimensions have a tolerance of :  $\pm 1.6\%$

Faston 4.8 mm



# SSLA Products

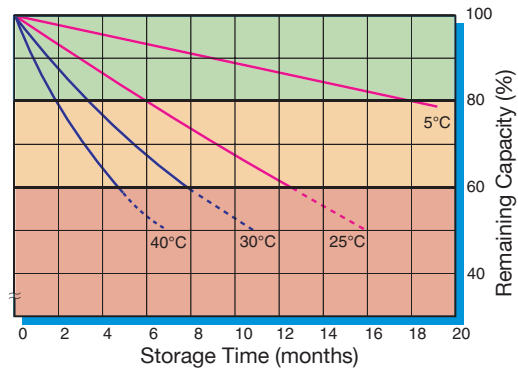
## FG21201 12 Volt 12 Ah

Capacity loss during storage at various temperatures

The battery can be used without refreshing charge

Refreshing charge at 2.4 Vpc for 24 hours (at 20-25°C) must be applied as soon as possible.

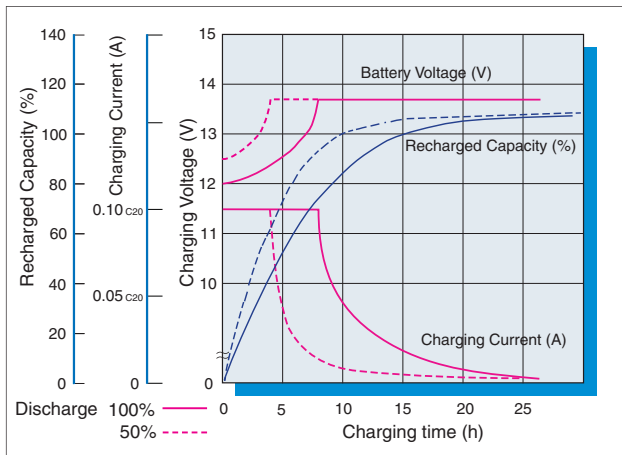
Refreshing charge of 2.4 Vpc may be insufficient to recover the battery capacity. It is important to avoid this area



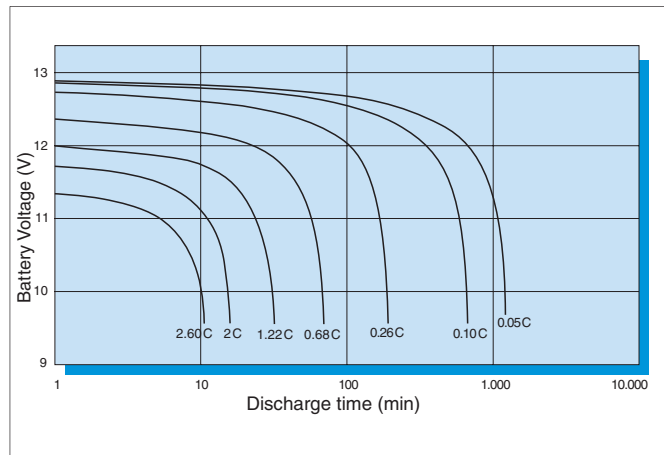
VdS N.:G193064



### Battery Voltage and Charge Time for Standby Use (at 25°C)



### Discharge curves at different current / final voltage (at 25°C)



### Costant Current discharge table (Amperes)

End voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hrs	3 hrs	5 hrs	10 hrs	20 hrs
9.60 V	39.2	27.7	21.1	17.0	12.7	9.37	7.50	4.30	3.14	2.09	1.16	0.63
9.90 V	38.1	27.0	20.7	16.7	12.5	9.23	7.44	4.25	3.10	2.07	1.15	0.62
10.02 V	37.1	26.4	20.4	16.6	12.3	9.12	7.34	4.21	3.07	2.05	1.14	0.62
10.20 V	35.7	25.7	20.1	16.4	12.2	9.02	7.24	4.17	3.04	2.04	1.13	0.62
10.50 V	34.0	24.5	19.1	15.7	11.8	8.79	7.07	4.08	2.98	2.00	1.11	0.60
10.80 V	31.5	23.0	17.8	14.8	11.2	8.39	6.78	3.96	2.91	1.97	1.09	0.60

### Costant Power discharge table (Watts per bloc)

End voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hrs	3 hrs	5 hrs	10 hrs	20 hrs
9.60 V	391	284	221	182	138	104	84.3	49.0	36.0	24.1	13.5	7.31
9.90 V	382	279	218	179	137	103	84.0	48.6	35.8	24.0	13.4	7.29
10.02 V	377	275	217	178	136	102	83.4	48.4	35.6	23.9	13.3	7.29
10.20 V	373	273	215	177	135	102	82.9	48.3	35.5	23.9	13.3	7.28
10.50 V	359	266	213	176	134	101	81.8	47.8	35.2	23.8	13.2	7.26
10.80 V	330	246	196	165	127	96.5	78.6	46.4	34.3	23.3	13.0	7.16