

FIAMM

Industrial Batteries

FG series



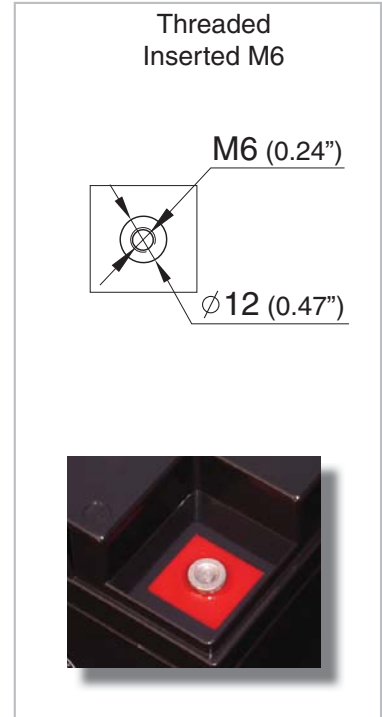
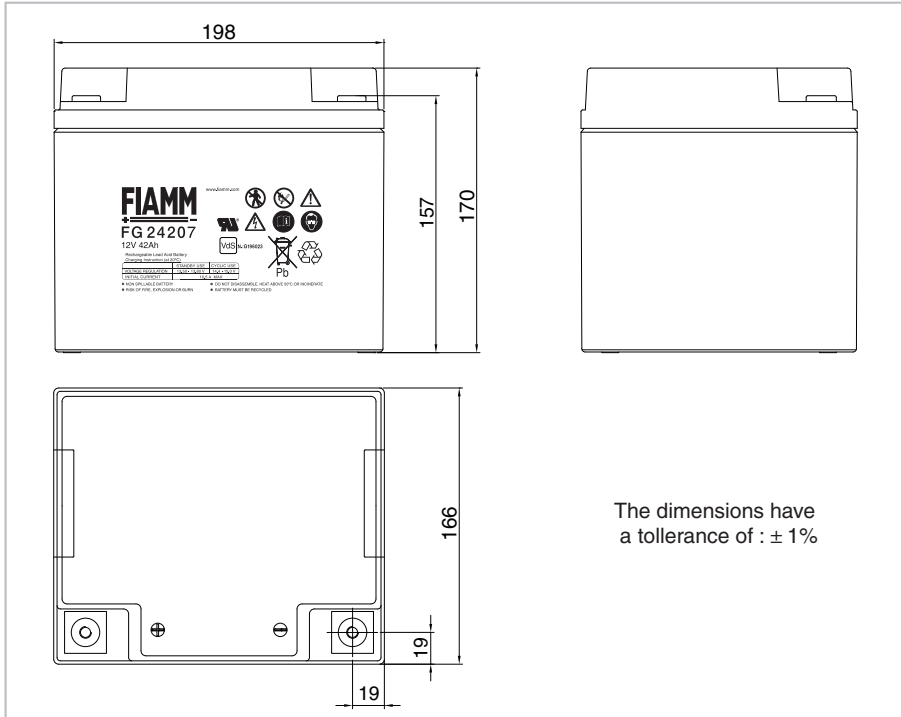
FG24207

12 Volt 42 Ah

FG24207 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	42 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	10.5 A
Case	ABS with HB flammability rate (according UL 94)
Internal resistance	4.6 mΩ in full charged condition
Weight	13.8 kg
Dimensions	L x W x H (TH): 196 x 163 x 174 (172)
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



SSLA Products

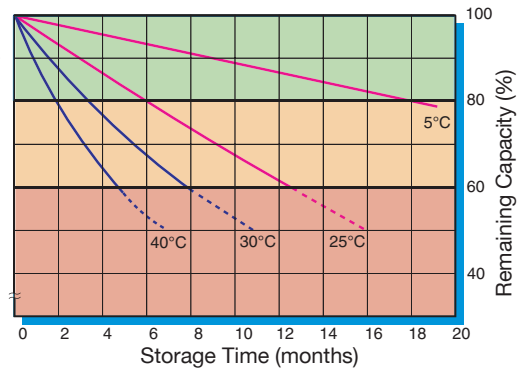
FG24207 12 Volt 42 Ah

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.

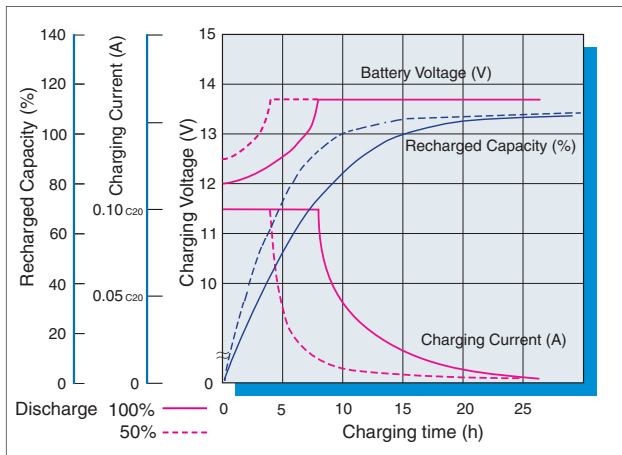
Refreshing charge of 2.4 Vpc may be insufficient to recover the battery capacity. It is important to avoid this area



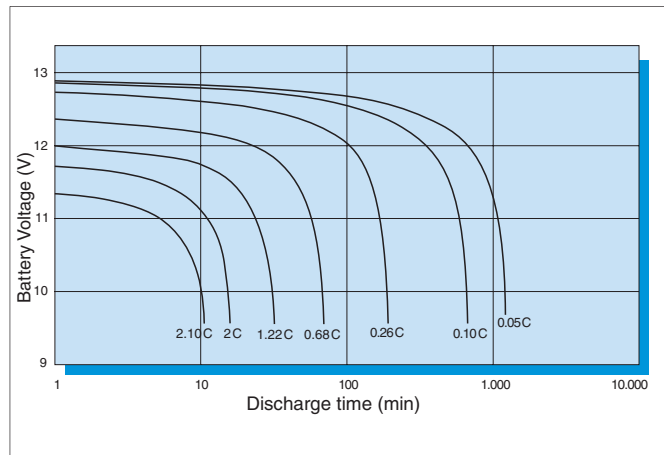
VdS N.:G196023



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



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



Constant 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	151	103	78.1	63.4	47.4	34.3	26.9	14.7	10.6	7.04	3.91	2.17
9.90 V	146	101	76.5	62.7	46.9	34.0	26.7	14.6	10.5	6.97	3.87	2.16
10.02 V	143	99.3	75.7	62.2	46.6	33.6	26.5	14.5	10.4	6.93	3.85	2.14
10.20 V	138	97.5	74.8	61.7	46.1	33.3	26.2	14.4	10.3	6.89	3.82	2.12
10.50 V	133	94.8	73.0	60.6	45.2	32.7	25.8	14.2	10.2	6.77	3.76	2.10
10.80 V	121	88.5	69.2	57.0	42.4	31.0	24.6	13.6	9.83	6.59	3.68	2.04

Constant 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	1510	1056	817	676	517	381	303	168	122	81.4	45.4	25.2
9.90 V	1469	1040	806	673	513	379	301	167	121	81.0	45.1	25.2
10.02 V	1440	1027	799	668	511	376	299	166	120	80.7	44.9	25.1
10.20 V	1390	1011	792	664	506	372	297	165	119	80.3	44.7	25.0
10.50 V	1346	986	776	656	499	367	293	163	118	79.3	44.4	24.9
10.80 V	1230	924	740	620	471	350	280	158	115	77.5	43.5	24.3