

FIAMM

Industrial Batteries

FG series



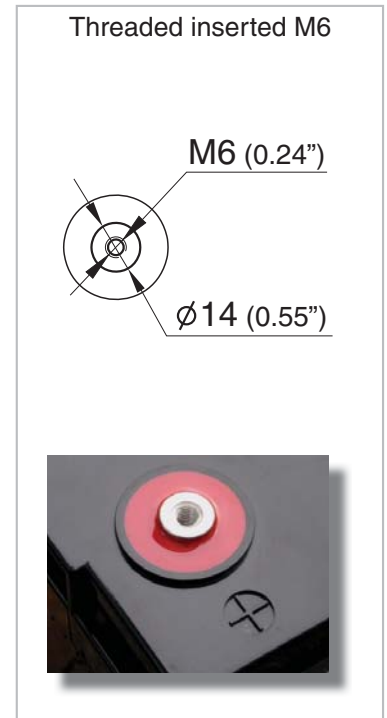
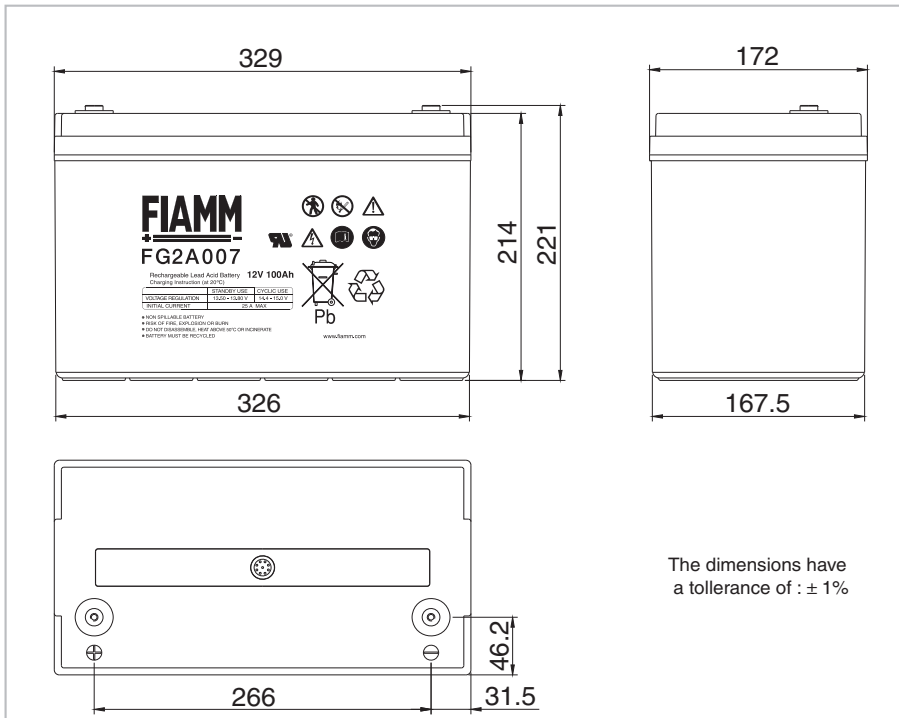
FG2A007

12 Volt 100 Ah

FG2A007 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	100 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	25 A
Case	ABS with HB flammability rate (according UL 94)
Internal resistance	3.1 mΩ in full charged condition
Weight	32.80 kg
Dimensions	L x W x H (TH): 329 x 172 x 214 (221)
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

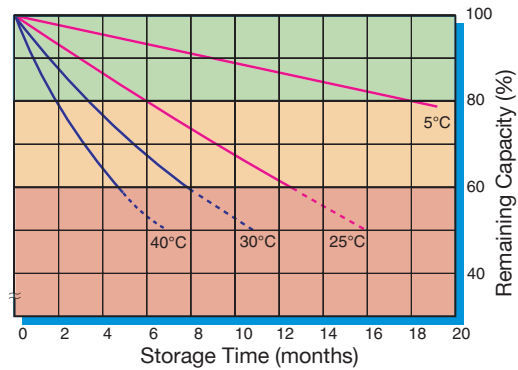
FG2A007 12 Volt 100 Ah

Capacity loss during storage at various temperatures

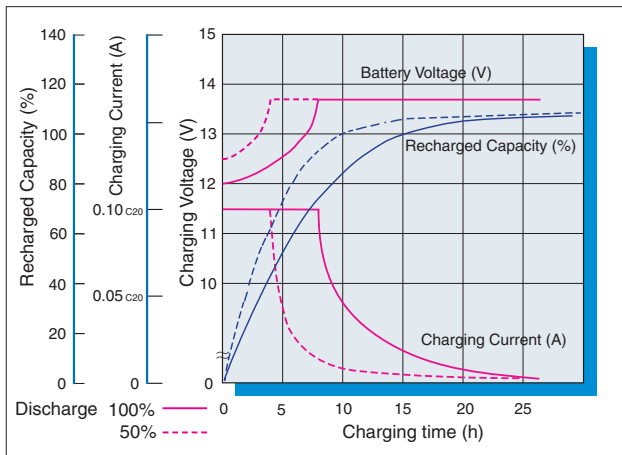
The battery can be used without refreshing charge

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

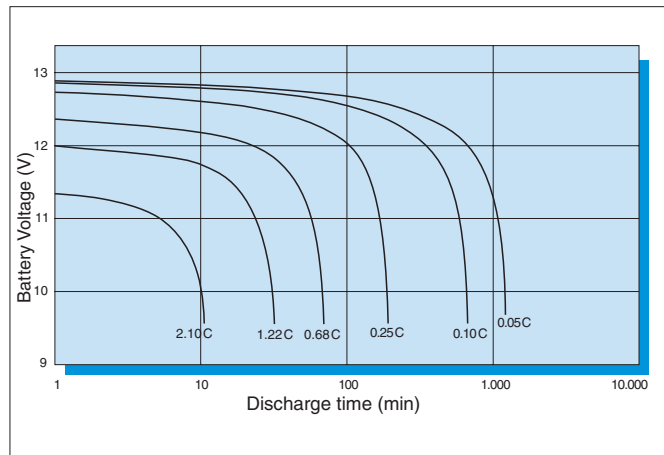
Refreshing charge of 2.4 Vpc may be insufficient to recover the battery capacity. It is important to avoid this area



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 hour	3 hour	5 hour	10 hour	20 hour
9.60 V	323	234	189	156	116	83.6	65.6	36.3	25.8	16.8	9.53	5.10
9.90 V	309	226	186	152	114	82.2	64.7	35.9	25.5	16.7	9.47	5.09
10.02 V	299	222	181	150	112	81.4	64.1	35.7	25.3	16.6	9.44	5.08
10.20 V	290	217	177	148	111	80.5	63.6	35.4	25.2	16.5	9.40	5.08
10.50 V	270	205	168	141	108	78.6	62.5	35.0	24.8	16.4	9.29	5.05
10.80 V	247	190	158	135	104	76.2	60.7	34.2	24.3	16.0	9.13	4.87

Constant Power discharge table (Watts per bloc)

End voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hour	3 hour	5 hour	10 hour	20 hour
9.60 V	3327	2468	2021	1677	1261	917	724	407	291	191	109	58.8
9.90 V	3244	2423	2009	1658	1250	912	721	405	289	191	109	58.7
10.02 V	3172	2396	1976	1646	1244	908	719	404	288	190	109	58.7
10.20 V	3100	2369	1943	1634	1237	904	717	403	287	190	108	58.7
10.50 V	2947	2270	1872	1581	1215	893	712	401	286	189	108	58.6
10.80 V	2757	2138	1794	1534	1188	877	701	398	283	187	107	57.1