



BB_FG24V27A Battery box 24V 27Ah

Protection mode :

Protection type : II 2G Ex eb IIC T6 Gb IP23 / IP66

II 2G Ex eb mb IIC T6 Gb IP66

II 2D Ex tb IIIC T85°C Db IP66

I M2 Ex eb mb I 150°C Mb IP66

Class of temperature : T6

Ambient temperature : -20 / +50°C

Zones : 1 – 2 – 21 – 22 – M2



Description :

Battery box including two FIAMM batteries FG22703 of 12V 27Ah. This battery is designed to respond to more or less long discharge regimes.

Design of the AISI 316L stainless steel box with screwed lid on the underside.

Supplied with cable gland and cable.

Technical specifications :

Nominal voltage : 12 Volt

Nominal capacity : 27 Ah C20 sous 1.75 Vpc à 25 °C

Floating charging voltage : 13.50 - 13.80 V à 25 °C

Boost charge voltage : 14.40 - 15.00 V à 25 °C

Float voltage compensation : -18mV/°C

Maximum charging current : 6.75 A

Weight : 8.5 kg

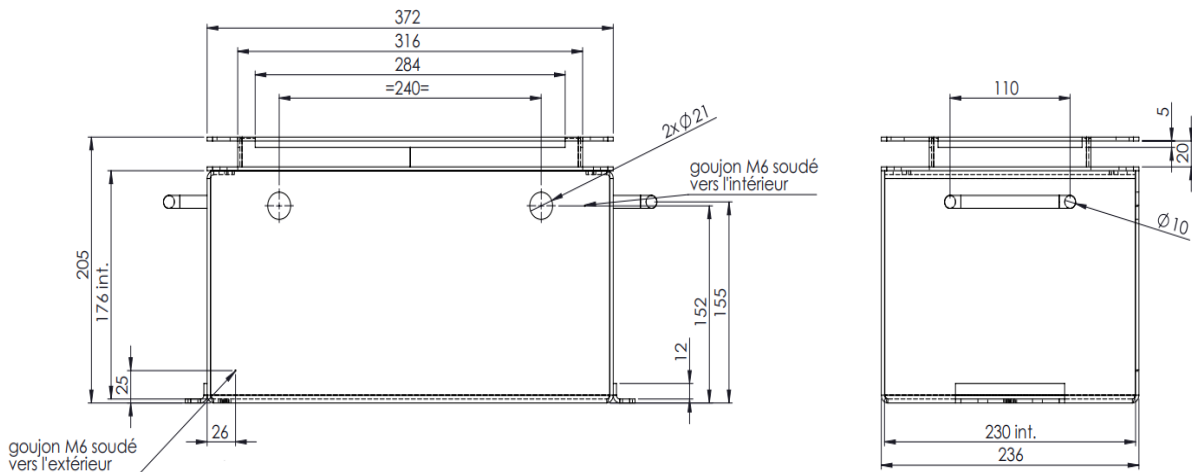
Dimension batterie L x W x (TH) : 166 x 175 x 125

Storage : Batteries lose part of their capacity during storage, due to self-discharge.

Fiamm recommends a maximum storage of 6 months under 25 ° C beyond this period it will be necessary to recharge the battery.

The longer the storage, the longer the refill will be. Fiamm recommends the following method: 2.4V / battery for a maximum duration of 24 hours at 20 ° C

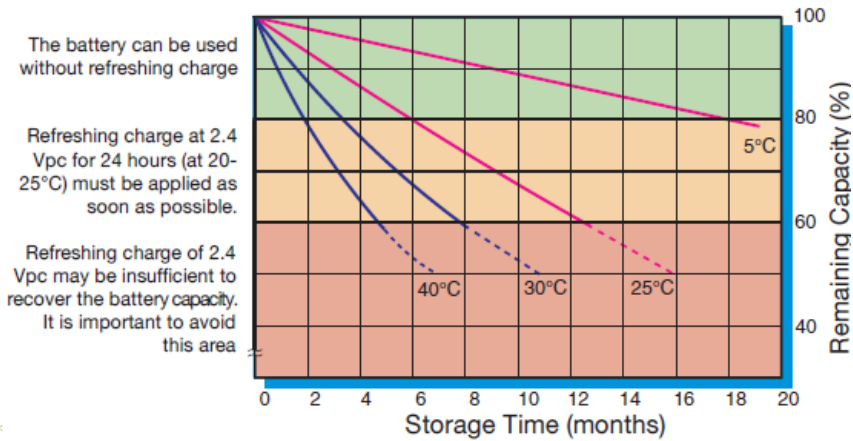
Dimensions : Diagram for illustrative purposes these dimensions may change



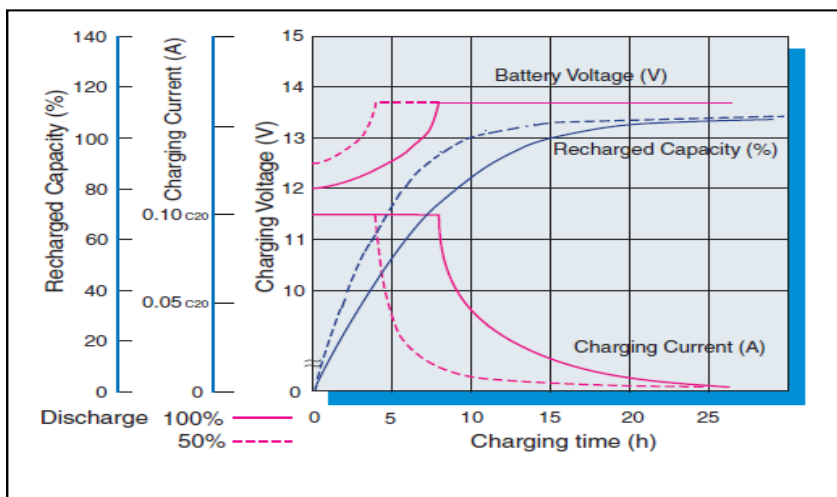


BB_FG24V27A Battery box 24V 27Ah

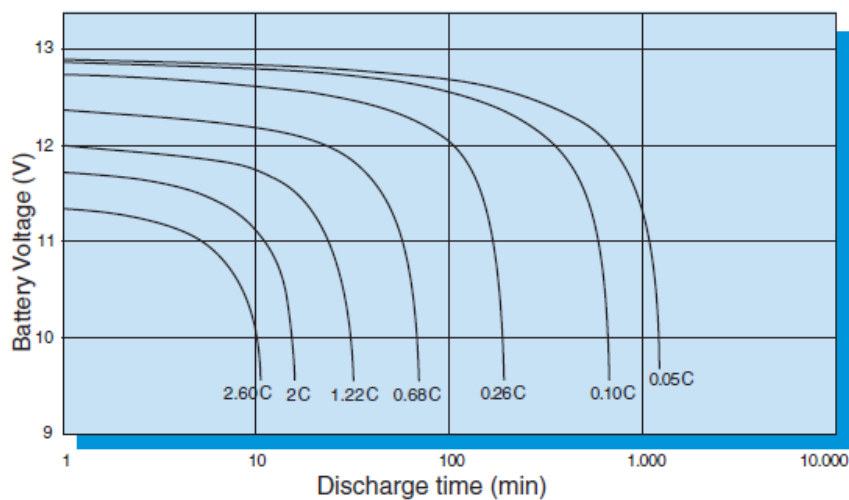
Capacity loss during storage at various temperatures :



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



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





BB_FG24V27A Battery box 24V 27Ah

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	80,9	57,6	45,0	37,0	27,6	20,3	16,9	9,45	6,75	4,44	2,54	1,40
9,90 V	77,9	55,9	44,0	36,3	27,3	20,1	16,8	9,40	6,73	4,40	2,53	1,39
10,02 V	76,0	55,2	43,5	36,0	27,1	20,0	16,6	9,34	6,66	4,37	2,51	1,39
10,20 V	73,5	53,8	43,0	35,7	27,0	19,9	16,3	9,29	6,62	4,35	2,50	1,38
10,50 V	70,0	52,4	42,0	34,9	26,6	19,6	16,0	9,11	6,53	4,27	2,46	1,36
10,80 V	64,4	49,2	39,6	33,3	25,4	19,0	15,4	8,84	6,36	4,19	2,38	1,32

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	808	590	471	395	302	225	190	108	77,6	51,3	29,5	16,3
9,90 V	782	577	463	390	299	224	189	107	77,6	51,1	29,4	16,3
10,02 V	764	571	459	387	298	223	187	107	76,9	50,9	29,4	16,3
10,20 V	740	557	456	385	296	222	184	106	76,6	50,8	29,3	16,2
10,50 V	707	545	446	377	293	221	182	105	76,0	50,1	29,0	16,1
10,80 V	653	514	424	362	282	214	176	102	74,3	49,2	28,1	15,8