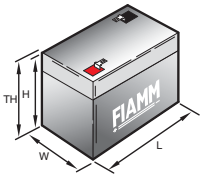


## Applications and Key Benefits

- + General purpose batteries designed to achieve optimal performance and to protect critical equipment and processes from power disturbances.  
Ideal for:
  - Emergency lighting
  - Signaling
  - Security & alarm systems
  - UPS applications
  - Recreational products
  - Medical equipment
  - Renewable energy storage
- + Available in 6V and 12V monobloc designs
- + Optimal for discharges up to 20 hours in duration
- + 5 year design life in float applications with temperature controlled environments
- + VRLA AGM technology with a 99% recombination efficiency assuring long life
- + Non-spillable with no water additions necessary
- + Non-hazardous designation for air/sea/rail/road transportation
- + 100% recyclable

## TP\*: Terminal Position



- Faston
- Wire + Connector
- Bolt and Nut



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

Model	VdS	Nominal voltage (V)	Capacity (Ah)				Weight (lb)	Dimensions (in)				Temp. (°F)			TP*	Terminal Type			
			Discharge 20 h rate 1.75V/cell	Discharge 10 h rate 1.75V/cell	Discharge 5 h rate 1.70V/cell	Discharge 1.5 h rate 1.60V/cell		L	W	H	TH*	Charge	Discharge	Storage					
FG10121		6	1.2	1.08	1.00	0.78	0.69	3.82	0.94	2.05	2.32	32 to 104	-4 to 122	-4 to 122	2	Faston 4.8			
FG10301	•	6	3.0	2.7	2.55	1.95	1.58	5.28	1.34	2.36	2.64				2	Faston 4.8			
FG10381		6	3.8	2.88	2.72	2.08	1.57	2.60	1.30	4.65	4.92				3	Faston 4.8			
FG10451		6	4.5	3.6	3.4	2.6	1.54	2.76	1.85	3.94	4.17				1	Faston 4.8			
FG10721		6	7.2	6.3	5.95	4.55	2.70	5.94	1.34	3.70	3.94				2	Faston 4.8			
FG11201/2	•	6	12	10.8	9.6	7.5	4.19	5.94	1.97	3.66	3.90				2	Faston 4.8 / 6.3			
FG20086		12	0.8	0.72	0.63	0.53	0.77	3.78	0.98	2.44	2.44	32 to 104	-4 to 122	-4 to 122	5	Wire+Connector			
FG20121	•	12	1.2	1.06	0.98	0.8	1.39	3.82	1.93	2.01	2.24				4	Faston 4.8			
FG20121A	•	12	1.2	1.08	1.0	0.78	1.32	3.82	1.69	2.05	2.32				4	Faston 4.8			
FG20201	•	12	2.0	1.83	1.65	1.37	2.05	7.01	1.38	2.36	2.64				2	Faston 4.8			
FG20271		12	2.7	2.43	2.25	1.76	2.49	3.11	2.20	3.90	4.13				3	Faston 4.8			
FG20341		12	3.4	3.0	2.9	2.2	3.11	5.28	2.64	2.36	2.64				4	Faston 4.8			
FG20451		12	4.5	4.1	3.8	3.0	3.48	3.54	2.76	3.98	4.21				3	Faston 4.8			
FG20721/2	•	12	7.2	6.7	6.0	5.0	5.36	5.94	2.56	3.70	3.94				4	Faston 4.8 / 6.3			
FG21201/2	•	12	12	11.3	10	8.4	8.22	5.94	3.86	3.74	3.94				4	Faston 4.8 / 6.3			
FG21703	•	12	17	15.5	13.9	11.2	13.01	7.13	2.99	6.57	6.57				6	Flag Ø5.5			
FG21803		12	18	16.9	15	12.7	13.01	7.13	2.99	6.57	6.57				6	Flag Ø5.5			
FG22703	•	12	27	24.4	22.1	18.4	18.74	6.54	6.89	4.92	4.92				32 to 104	-4 to 122	-4 to 122	6	Flag Ø5.5
FG24204	•	12	42	37.9	34.4	28.5	30.42	7.76	6.50	6.69	6.69							6	Flag Ø6.5
FG27004	•	12	70	64.4	58.5	47.4	49.82	13.78	6.54	6.85	6.85	6	Flag Ø6.5						

\*TH = total height including terminals

## Constant Current discharge table (Amperes)

Final Voltage: 1.65 V/cell - Temperature: 77°F

Model	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hours	3 hours	5 hours	10 hours	20 hours
FG20451	14.4	10.1	7.61	6.13	4.33	3.15	2.50	1.50	1.10	0.74	0.42	0.23
FG20721	27.1	18.3	13.8	11.1	8.11	5.91	4.73	2.66	1.88	1.21	0.67	0.37
FG20722	30.1	21.2	16.2	12.8	9.13	6.41	4.97	2.67	1.88	1.21	0.67	0.37
FG21201/2	38	26.9	20.7	16.7	12.5	9.21	7.42	4.23	3.14	2.02	1.12	0.62
FG21803	58.3	39.3	29.7	24.1	17.9	13.3	10.8	6.28	4.61	3.06	1.7	0.93
FG22703	84.5	60.6	47.7	39.4	28.7	21.1	17.6	9.68	6.93	4.54	2.53	1.39
FG24204	146	101	76.5	62.7	46.9	34	26.7	14.6	10.5	6.97	3.87	2.16
FG27004	224	164	126	102	76.1	55.5	43.6	24.5	17.7	11.7	6.49	3.58

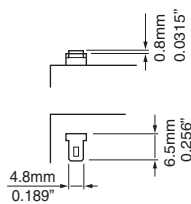
## Constant Power discharge table (Watts per bloc)

Final Voltage: 1.65 V/cell - Temperature: 77°F

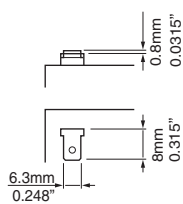
Model	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hours	3 hours	5 hours	10 hours	20 hours
FG20451	145	106	80.8	66.1	47.5	35.2	28.2	17.1	12.7	8.65	4.90	2.71
FG20721	272	189	146	119	88.8	65.9	53.3	30.5	21.7	14.1	7.84	4.34
FG20722	302	219	170	138	99.9	71.5	56.1	30.6	21.7	14.0	7.84	0.72
FG21201/2	382	278	218	179	137	103	83.8	48.4	36.2	23.4	13.1	7.23
FG21803	585	406	313	258	196	148	122	71.8	53.1	35.5	19.8	10.9
FG22703	848	626	503	423	314	235	199	111	79.9	52.7	29.4	16.3
FG24204	1469	1040	806	673	513	379	301	167	121	81	45.1	25.2
FG27004	2250	1688	1322	1100	833	619	492	281	204	136	75.6	41.8

## Terminal Type

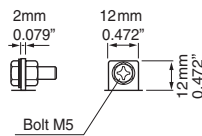
### Faston 4.8



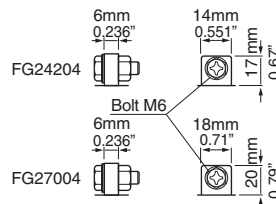
### Faston 6.3



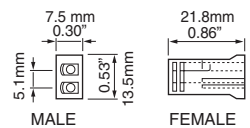
### Flag Ø5.5



### Flag Ø6.5



### Wire+Connector



## Technical Features

- **Grids:** gravity casted grids with high purity lead calcium tin alloy
- **Separators:** electrolyte fully absorbed in glass mat "AGM" separators with extremely high micro porosity
- **Terminal posts:** faston, wire+connector or flag depending on the model
- **Post seals:** high integrity post seal design prevents acid leakage over a wide temperature range
- **One-way safety valves** allow excess gas to escape when overcharging
- **Container and cover:** made of thick walled ABS plastics, designed for unsurpassed mechanical strength
- **Shelf life:** < 2% self-discharge per month at 77°F allows 6 months shelf life

## Applicable Standards

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- UL Recognized

## FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- OHSAS 18001 - Workplace Safety & Health

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# FIAMM

Industrial Batteries