FIAMM

Industrial Batteries

MONOLITE

FAT

Applications and Key Benefits

- 12V AGM front terminal blocs - 30Ah to 180Ah nominal capacity

  Ideal for:
  - Telecom outdoor cabinets for wireline and wireless application
  - Broadband, microwave repeater and fiber optic regeneration sites
  - Extended backup solutions in utility switchgear and industrial applications
- Up to 12 year design life while in float operation in temperature controlled environments
- Excellent low rate discharge 1 to 10 hours
- Front terminal design for reduced headspace, higher energy density and compact battery layout
- Front terminal access reduces installation time and simplifies maintenance
- Will fit into 19 or 23 inch power racks / cabinets
- AGM recombination technology minimizes gassing
- Remote venting kits available for select FAT models
- Non-spillable
- No water additions required
- Non-hazardous for air/sea/rail/ road transportation
- 100% Recyclable

Applicable Standards

- Telcordia (Bellcore) SR-4228
- Telcordia (Bellcore) TR-NWT-001200
- Telcordia (Bellcore) TR-NWT-000909
- UL Recognized
- UL 94 Class V-0 - flame retardant
- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- Eurobat “Long Life” - 12 years and longer
- BS 6290 Part 4 - specifications for VRLA classification
- BS 6334 method FV0 - flame retardant

FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System

Technical Features

- **Plates:** extra thick plates with grids cast from high quality lead-tin-calcium alloy to ensure long reliable life and low gas emission
- **Separators:** microporous absorbed glass mat (AGM) facilitates recombination and immobilizes the electrolyte
- **Container and Cover:** made from thick walled flame retardant ABS plastic and designed for unsurpassed mechanical strength. The case and cover has an LOI greater than 28% and meets the flame retardant standards of UL 94 V-O. Thermally welded case to cover sealing eliminates leaks.
- **Flame Arrestors / Safety Valves:** designed to open at 5 PSI and close at 3 PSI, the vent allows excess gas to escape when overcharging.
- **Terminals:** threaded terminal posts with brass inserts provide high conductivity, retain required torque values and allow for easy installation.
- **Post Seals:** The high integrity post seal design prevents electrolyte leakage over a wide temperature range
- **Internal Connections:** heavy duty internal straps and through-the-partition cell connections minimize internal resistance and increase energy density
- **Terminal Covers:** removable fully insulated covers designed with probe holes for safe and easy voltage measurement
- **Handles:** to facilitate ease of handling, installation and removal of the batteries
- **Remote venting system** available for applications which require gassing to be vented externally
- **Shelf life:** < 2% self-discharge per month at 77°F allows 6 months shelf life before boosting is required

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FIAMM FAT range

BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY (Ah) at 77°F	DIMENSIONS (in)			WEIGHT (lbs)	TERMINAL TYPE*
		8 hrs to 1.75 Vpc	Length	Width	Height		
12 FAT 30	12	30	11.02	4.10	7.22	31.3	Female M6
12 FAT 60	12	60	11.02	4.10	10.23	44.0	Female M6
12 FAT 75	12	75	14.17	6.46	9.29	71.0	Male M8
12 FAT 100/19	12	100	15.55	4.25	10.83	74.7	Female M6
12 FAT 100	12	100	21.97	4.96	9.06	94.8	Female M6
12 FAT 125	12	125	21.97	4.96	10.67	110	Female M6
12 FAT 130	12	130	16.55	6.81	10.03	109	Female M6
12 FAT 145	12	145	16.55	6.81	10.03	120	Female M6
12 FAT 155	12	155	21.97	4.96	12.64	129	Female M6
12 FAT 170	12	170	21.97	4.96	12.64	132	Female M6
12 FAT 180	12	180	21.97	4.96	12.64	134	Female M6

*optional L-brackets for front access (M6 on vertical side)

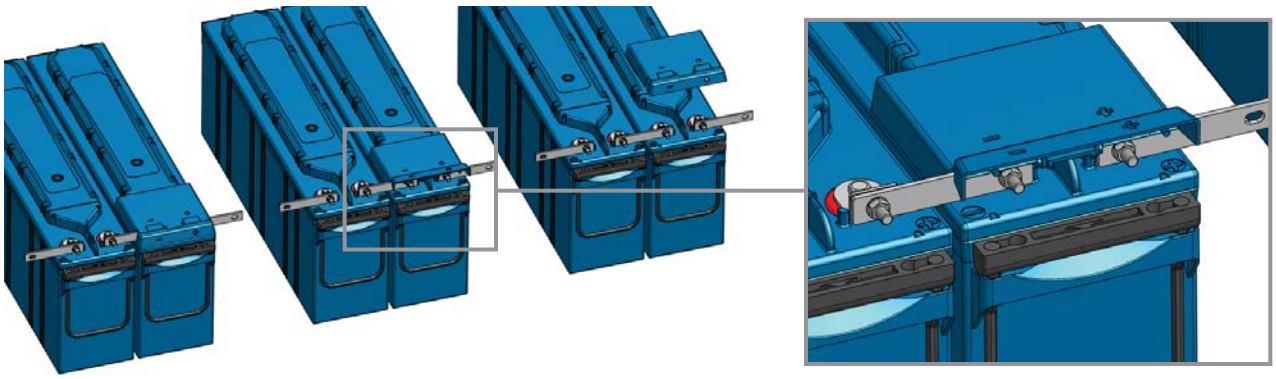
Electrical Characteristics

- FLOAT VOLTAGE CHARGE AT 77°F: 2.26 Vpc
- TEMPERATURE COMPENSATION: -1.38 mV/°F

Torque Settings

- Female M6: 62-80 inlbs (7-9 Nm)
- Male M8: 62-70 (7-8 Nm)

Removable Terminal Covers



12 FAT 100-125-130-145-155-170-180

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FIAMM
Industrial Batteries

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FAT

BATTERY TYPE	Constant Current Discharge Rates Amperes to 1.67 Vpc at 77°F (25°C)										
	HOURS										
	1	2	3	4	5	6	7	8	10	12	20
12 FAT 30	20.4	11.5	8.20	6.53	5.46	4.75	4.20	3.77	3.11	2.62	1.65
12 FAT 60	37.6	22.6	16.5	13.3	11.2	9.71	8.55	7.66	6.29	5.37	3.35
12 FAT 75	50.9	28.6	20.5	16.3	13.6	11.9	10.5	9.43	7.77	6.54	4.11
12 FAT 100/19	65.3	38.0	27.8	22.0	18.4	15.7	14.0	12.7	10.3	8.86	5.59
12 FAT 100	65.3	38.0	27.8	22.0	18.4	15.7	14.0	12.7	10.3	8.86	5.59
12 FAT 125	81.6	47.6	34.8	27.5	22.9	19.7	17.5	15.8	12.9	11.1	6.99
12 FAT 130	83.2	48.5	35.4	28.0	23.3	20.0	17.8	16.1	13.1	11.3	7.10
12 FAT 145	98.0	57.9	41.5	32.7	27.2	23.4	20.6	18.5	15.3	13.2	8.53
12 FAT 155	101	59.0	43.1	34.1	28.5	24.4	21.6	19.6	15.9	13.7	8.66
12 FAT 170	123	72.0	51.7	40.3	33.2	28.3	24.7	22.0	18.2	15.5	9.80
12 FAT 180	127	73.9	53.0	41.6	34.4	29.3	25.6	22.8	18.8	16.0	10.1

BATTERY TYPE	Constant Current Discharge Rates Amperes to 1.75 Vpc at 77°F (25°C)										
	HOURS										
	1	2	3	4	5	6	7	8	10	12	20
12 FAT 30	19.6	11.2	8.10	6.47	5.41	4.71	4.17	3.74	3.08	2.59	1.63
12 FAT 60	36.3	22.0	16.2	13.1	11.0	9.51	8.41	7.57	6.23	5.32	3.33
12 FAT 75	48.9	27.8	20.3	16.2	13.5	11.8	10.4	9.35	7.69	6.48	4.07
12 FAT 100/19	62.5	37.1	27.1	21.5	18.0	15.4	13.7	12.5	10.2	8.67	5.51
12 FAT 100	62.5	37.1	27.1	21.5	18.0	15.4	13.7	12.5	10.2	8.67	5.51
12 FAT 125	78.1	46.4	33.9	26.9	22.5	19.2	17.1	15.6	12.8	10.8	6.89
12 FAT 130	79.3	47.1	34.4	27.3	22.9	19.5	17.4	15.8	13.0	11.0	7.00
12 FAT 145	94.0	56.5	40.7	32.1	26.7	23.0	20.2	18.1	15.1	13.0	8.45
12 FAT 155	96.9	57.5	42.0	33.3	27.9	23.8	21.2	19.4	15.8	13.4	8.55
12 FAT 170	119	70.3	50.3	39.3	32.4	27.6	24.1	21.5	17.7	15.1	9.50
12 FAT 180	123	72.2	51.6	40.6	33.5	28.6	24.9	22.3	18.3	15.6	9.83

BATTERY TYPE	Constant Current Discharge Rates Amperes to 1,80 Vpc at 77°F (25°C)										
	HOURS										
	1	2	3	4	5	6	7	8	10	12	20
12 FAT 30	19.1	11.0	8.03	6.41	5.38	4.68	4.14	3.71	3.05	2.57	1.61
12 FAT 60	35.3	21.6	15.9	12.9	10.9	9.43	8.34	7.48	6.18	5.27	3.30
12 FAT 75	47.7	27.1	20.1	16.0	13.4	11.7	10.3	9.28	7.62	6.44	4.03
12 FAT 100/19	60.9	36.4	26.7	21.3	17.8	15.3	13.5	12.3	10.0	8.55	5.45
12 FAT 100	60.9	36.4	26.7	21.3	17.8	15.3	13.5	12.3	10.0	8.55	5.45
12 FAT 125	76.2	45.4	33.4	26.6	22.3	19.1	16.9	15.4	12.5	10.7	6.81
12 FAT 130	77.7	46.3	34.0	27.1	22.7	19.4	17.2	15.7	12.7	10.9	6.93
12 FAT 145	91.5	55.3	40.0	31.7	26.5	22.9	20.1	18.0	15.0	12.9	8.40
12 FAT 155	94.4	56.4	41.4	33.0	27.7	23.7	21.0	19.1	15.5	13.3	8.45
12 FAT 170	116	67.9	48.9	38.4	31.7	27.0	23.7	21.1	17.4	14.9	9.40
12 FAT 180	118	69.7	50.2	39.7	32.8	27.9	24.5	21.8	18.0	15.4	9.72

FIAMM Energy LLC, One FIAMM Way, Waynesboro, GA 30830 Tel. 888-77-FIAMM (888-773-4266)

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BATTERY TYPE	Constant Power Discharge Watt per cell to 1,67 Vpc at 77°F (25°C)										
	HOURS										
	1	2	3	4	5	6	7	8	10	12	20
12 FAT 30	37.4	21.4	15.7	12.5	10.5	9.13	8.09	7.26	5.96	5.03	3.15
12 FAT 60	69.8	42.4	31.1	25.2	21.3	18.5	16.3	14.6	12.1	10.3	6.32
12 FAT 75	93.6	53.4	39.1	31.3	26.2	22.8	20.2	18.1	14.9	12.6	7.88
12 FAT 100/19	121	71.5	52.6	41.7	34.9	30.0	26.7	24.2	19.7	17.0	10.7
12 FAT 100	121	71.5	52.6	41.7	34.9	30.0	26.7	24.2	19.7	17.0	10.7
12 FAT 125	152	89.4	65.7	52.2	43.6	37.5	33.3	30.2	24.7	21.2	13.4
12 FAT 130	155	91.2	66.9	53.1	44.4	38.2	33.9	30.7	25.1	21.6	13.6
12 FAT 145	183	109	78.9	62.3	52.0	44.7	39.4	35.4	29.4	25.2	16.0
12 FAT 155	188	111	81.5	64.7	54.1	46.5	41.3	37.5	30.5	26.3	16.6
12 FAT 170	230	136	98.2	76.8	63.4	54.2	47.3	42.2	34.9	29.8	18.9
12 FAT 180	238	140	100	79.3	65.6	56.0	49.0	43.6	36.1	30.8	19.6

BATTERY TYPE	Constant Power Discharge Watt per cell to 1.75 Vpc at 77°F (25°C)										
	HOURS										
	1	2	3	4	5	6	7	8	10	12	20
12 FAT 30	37.0	21.4	15.6	12.5	10.5	9.11	8.07	7.24	5.95	5.02	3.15
12 FAT 60	68.8	42.1	31.0	25.1	21.1	18.3	16.3	14.6	12.1	10.2	6.31
12 FAT 75	92.5	53.1	39.1	31.2	26.2	22.8	20.2	18.1	14.9	12.6	7.87
12 FAT 100/19	119	71.0	52.0	41.4	34.7	29.7	26.3	24.1	19.7	16.8	10.7
12 FAT 100	119	71.0	52.0	41.4	34.7	29.7	26.3	24.1	19.7	16.8	10.7
12 FAT 125	148	88.7	65.0	51.7	43.3	37.1	32.9	30.2	24.6	20.9	13.3
12 FAT 130	151	90.5	66.1	52.6	44.1	37.8	33.5	30.7	25.0	21.3	13.5
12 FAT 145	179	108	78.1	61.8	51.4	44.3	39.0	35.1	29.1	24.9	16.0
12 FAT 155	184	110	80.6	64.1	53.7	46.0	40.8	37.4	30.5	26.0	16.5
12 FAT 170	226	134	96.6	75.6	62.4	53.3	46.5	41.6	34.3	29.3	18.4
12 FAT 180	234	138	99.1	78.1	64.6	55.1	48.1	43.1	35.5	30.3	19.1

BATTERY TYPE	Constant Power Discharge Watt per cell to 1.80 Vpc at 77°F (25°C)										
	HOURS										
	1	2	3	4	5	6	7	8	10	12	20
12 FAT 30	36.6	21.2	15.6	12.5	10.5	9.11	8.06	7.23	5.94	5.02	3.14
12 FAT 60	68.0	41.8	30.8	25.0	21.1	18.4	16.3	14.6	12.0	10.2	6.28
12 FAT 75	91.5	52.5	39.0	31.2	26.2	22.8	20.2	18.1	14.8	12.5	7.86
12 FAT 100/19	117	70.4	51.8	41.4	34.7	29.8	26.4	24.0	19.5	16.7	10.7
12 FAT 100	117	70.4	51.8	41.4	34.7	29.8	26.4	24.0	19.5	16.7	10.7
12 FAT 125	147	88.0	64.8	51.8	43.4	37.2	33.0	30.0	24.4	20.9	13.3
12 FAT 130	150	90.0	66.0	52.7	44.2	37.9	33.6	30.5	24.8	21.3	13.5
12 FAT 145	176	107	77.6	61.7	51.6	44.6	39.2	35.1	29.2	25.1	16.0
12 FAT 155	182	109	80.3	64.2	53.9	46.1	40.9	37.2	30.3	25.9	16.5
12 FAT 170	223	131	95.0	74.7	61.7	52.6	46.2	41.2	34.0	29.1	18.4
12 FAT 180	227	135	97.4	77.2	63.9	54.4	47.8	42.6	35.1	30.1	19.0