



# FIAMM Non-Seismic Relay Rack System Worksheet

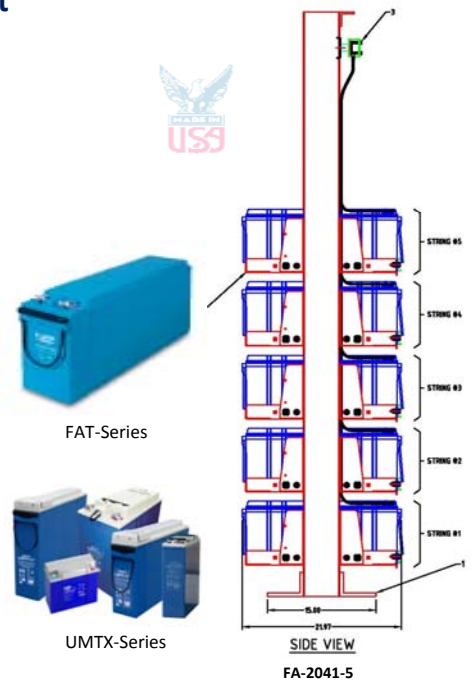
48 Volt Battery Configurations (other voltages available)



FIAMM Non-Seismic Relay Rack Systems = **FIAMM Rack (FR)** + **FIAMM Layout(s) (FL)**

**Fiamm Rack System Options (FR)** - below allow you to piece together 19" or 23" Relay Rack Systems with 100A disconnects. Fiamm's Pre-assembled Non-Seismic 23" 48V Relay Rack Systems below, include all rack hardware, cable sets, and top-mount busbars, in one part number. **Call for pricing system CAD drawings, 24 Volt, or 120 System Information.**

**Fiamm Layouts (FL)** provide both 24 or 48 Volt complete battery strings, to populate in your existing racking, or in Fiamm's non-seismic Relay Rack, or NEBS-certified / Zone 4 UBR series Racking systems. **Call for pricing, system CAD drawings, 24 Volt, or 120 System Information.**



<b>FIAMM RACK System Options (FR)</b>	Part No	Dimensions (in) does not include batteries	Weight	Total Capacity (Ah) w/48V 100 Ah 12V Jars	Total Capacity (Ah) w/48V 170 or 180Ah 12V Jars
<b>Non-Seismic 19" Relay Rack Equipment</b>					
Relay Rack, Standard 19 in, 84" High (fits UMTX100/19)	19RR	20.31 x 15 x 84	50	600	does not fit
Relay Rack, 19" Tray Shelf	FR3050	Fits 19" Rack	27	100	does not fit
Disconnect, 100A, includes breaker, bracket & cable	KIT1001L	see drawing	12	100	
Relay Rack, 19" Tray Shelf with 100 A Disconnect	KIT19RR 100A	19 x 16.47	29	100	does not fit
Bus Bar, for 19" RR, incl. lugs for battery string & bus take offs	BB1008				
<b>Non-Seismic 23" Relay Rack Equipment</b>					
Relay Rack, Standard 23 in, 84" High	23RR	26.31 x 15 x 84	50	600	1020/1080
Relay Rack 23" Tray Shelf	FR3100A	Fits 23" Rack	30	100	170/180
Disconnect, 100A, includes breaker, bracket & cable	KIT1001L	see drawing	12	100	
Relay Rack, 23" Tray Shelf with 100 A Disconnect	KIT23RR 100A	23 x 21.96	32	100	170/180
Bus Bar, for 23" RR, incl. lugs for battery string & bus take offs	BB1001				
<b>Non-Seismic 23" 48 Volt Relay Rack Systems with 1 cable set/shelf, and top-mount collector bars (call for other voltage systems)</b>					
Relay Rack, with 1 shelf, cable set, and bus bar	FA2041-1	23 x 21.96 x 84	80	100	170/180
Relay Rack, with 2 shelves, cables, and bus bar	FA2041-2		110	200	340/360
Relay Rack, with 3 shelves, cables, and bus bar	FA2041-3		130	300	540/570
Relay Rack, with 4 shelves, cables, and bus bar	FA2041-4		160	400	680/720
Relay Rack, with 5 shelves, cables, and bus bar	FA2041-5		190	500	850/900
Relay Rack, with 6 shelves, cables, and bus bar	FA2041-6		220	600	920/980
Disconnect, 100A, includes breaker, bracket & cable	KIT1001L	see drawing	12	100	

<b>FIAMM LAYOUT Options (FL)</b>	Part No per Fiamm Layout	Dimensions per Layout - W x D x H (in)	Weight per Fiamm Layout	Total Capacity (Ah) of 1 layout/shelf	Total Capacity (Ah) w/5 layouts/shelves
<b>48 Volt FIAMM Layouts - Battery String Includes (4) front Terminal Batteries, hardware, No-ox, and connectors - 3 yr full warranty, 10-yr design life</b>					
48 V, 30 Ah 12SLA30, Top Terminal Battery Layout	FL2089BA	15.98 x 10.9 x 7.48	125	30	150
48 V, 40 Ah, 12FAT40, Top Terminal Battery Layout	FL2724	11 x 16.6 x 7.22	124	40	200
48 V, 60 Ah 12FAT60, Top Terminal Battery Layout	FL2704	11.02 x 16.6 x 10.23	176	60	300
48 V, 100 Ah 12UMTX100/19, for 19" Relay Racks	FL2701	15.55 x 17.61 x 10.83	176	100	500
48 V, 100 Ah 12FAT100, Layout	FL2079	20.44 x 22 x 9.06	220	100	500
48 V, 110 Ah 12UMTX110, Layout	FL2410		220	110	550
<b>24 V, 145 Ah 12UMTX145 (IR-145 replacement)</b>		16.55 x 6.81 x 10.03	129	145	725
48 V, 155 Ah 12UMTX155, Layout	FL2707	22 x 20.44 x 12.64	528	155	775
48 V, 170 Ah 12UMTX170 Layout	FL2413		532	170	850
48 V, 180 Ah 12UMTX180 Layout	FL2414		560	180	900