



New Generation
FIRSTLINE[®] P

Emergency Lighting System
UL924 "OUST"

For Battery Run Times other than 90 Minutes

Model List

Emergency Lighting System (ELS), Three-Phase

FirstLine P (58.5kW through 225kW) UPS 480V

Effective January 15, 2015
Replaces all other releases

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FIRSTLINE P UPS

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FirstLine P 924 “OUST” ELS: 58.5kW through 225kW

ELS Module - On-line, double-conversion (5 x 8 Start-Up Included, Continental U.S. ONLY)

Model Number	Description	Dimensions H” x W” x D”	Weight. (lbs.)
480V x 480V			
FLU-P-924-58-OUST	58.5kW 480V/480Y/277, 60/50Hz	75 x 31.5 x 33.5	1,500
FLU-P-924-72-OUST	72kW 480V/480Y/277, 60/50Hz	75 x 31.5 x 33.5	1,500
FLU-P-924-90-OUST	90kW, 480V/480Y/277, 60/50Hz	75 x 31.5 x 33.5	1,610
FLU-P-924-112-OUST	112.5kW, 480V/480Y/277,60/50Hz	75 x 31.5 x 33.5	1,750
FLU-P-T-924-144-OUST	144kW, 480V/480Y/277, 60/50Hz	75 x 55 x 33.5	2,330
FLU-P-T-924-180-OUST	180kW, 480V/480Y/277, 60/50Hz	75 x 55 x 33.5	2,550
FLU-P-T-924-225-OUST	225kW, 480V/480Y/277, 60/50Hz	75 x 55 x 33.5	2,770

NOTE:

5 x 8 Startup Part Numbers for P Models:

58 – 112.5kW: *SERV-FLU-SU-58-02*, 144 – 225kW: *SERV-FLU-SU-58-03*

CONFIGURATION EXAMPLES FOR 144kW, 180kW & 225kW, 4 x 2 & 2 x 2, -T MODELS:

144kW, 4 x 2 with internal bypass

- FLU-P-T-924-144-OUST (ELS), FLU-P-160-OTC-2Y (208V OUTPUT TRANSFORMER) + BATTERY

144kW, 2 x 2 with internal bypass

- FLU-160-T (UPS), FLU-P-160-ITC-2Y (208V INPUT TRANSFORMER), FLU-P-160-OTC-2Y (208V OUTPUT TRANSFORMER) + BATTERY

160kva, 4 x 2 with internal and external bypass

- FLU-P-T-924-144-OUST (ELS), FLU-P-160-OTC-2Y (208V OUPUT TRANSFORMER), FLU-P-160-MBPS 4 x 4 (EXTERNAL BYASS) + BATTERY

144kW, 2 x 2 with internal bypass

- FLU-P-T-924-144-OUST (ELS), FLU-P-160-ITC-2Y (208V INPUT TRANSFORMER), FLU-P-160-OTC-2Y (208V OUTPUT TRANSFORMER), FLU-P-160-MBPS 4 x 4 (EXTERNAL BYASS) + BATTERY

For 180kW & 225kW change the kW in the examples above with quoted kW.

Battery Application note:

When selecting the battery, consideration should be given the using the Non Line Up & Match External Cabinet(s) -vs- the Standard Line Up & Match (FLU-BAT Cabinets. In most cases the Non Line Up & Match cabinets will provide the same of longer run times in less number of cabinets and battery strings.

Configure the UL924 “OUST” unit from standard FirstLine P Accessory Cabinets

65kVA & 80kVA Standard External Battery Cabinet(s), Line Up & Match

With 24Volt DC Shunt Trip Circuit Breaker Disconnect

Model Number	kVA	# Cabinets	# Strings	Back Up Time (Minutes)	Number Batteries	Fuse/Breaker Amps Per Cabinet	Dimensions H" x W" x D"	Weight (lbs.)
(1)FLU-BAT-200-1-480-B	65	1	1	9	40	(1) 200/200A	75 x 26.3 x 38	2,100
(1)FLU-BAT-200-2-480-B	65	1	2	28	80	(2) 100/200A	75 x 26.3 x 38	3,700
(1) FLU-BAT-200-1-480-B & (1) FLU-BAT-200-2-480-B	65	2	3	46	120	(1) 200/200A (2) 100/200A	75 x 52.6 x 38	5,800
(2)FLU-BAT-200-2-480-B	65	2	4	69	160	(2) 100/200A	75 x 52.6 x 38	7,400
(3)FLU-BAT-200-2-480-B	65	3	6	113	240	(2) 100/200A	75 x 78.9 x 38	11,100
(1) FLU-BAT-200-1-480-B & (3) FLU-BAT-200-2-480-B	65	4	7	135	280	(1) 200/200A (2) 100/200A	75 x 105.2 x 38	13,200
(4) FLU-BAT-200-2-480-B	65	4	8	157	320	(2) 100/200A	75 x 105.2 x 38	14,800
(1)FLU-BAT-200-1-480-B	80	1	1	6	40	(1) 100/200A	75 x 26.3 x 38	2,100
(1)FLU-BAT-200-2-480-B	80	1	2	20	80	(2) 100/200A	75 x 26.3 x 38	3,700
(1) FLU-BAT-200-1-480-B & (1) FLU-BAT-200-2-480-B	80	2	3	37	120	(1) 200/200A (2) 100/200A	75 x 52.6 x 38	5,600
(2)FLU-BAT-200-2-480-B	80	2	4	53	160	(2) 100/200A	75 x 52.6 x 38	7,400
(1) FLU-BAT-200-1-480-B & (2) FLU-BAT-200-2-480-B	80	3	5	70	200	(1) 200/200A (2) 100/200A	75 x 78.9 x 38	9,500
(1) FLU-BAT-200-1-480-B & (3) FLU-BAT-200-2-480-B	80	4	7	105	280	(1) 200/200A (2) 100/200A	75 x 105.2 x 38	13,200
(4) FLU-BAT-200-2-480-B	80	4	8	124	320	(2) 100/200A	75 x 105.2 x 38	14,800

Notes:

1. FLU-BAT-200-1-480-B Battery Cabinets are field upgradeable to a FLU-BAT-200-2-480-B.
2. Full Battery Cabinet (-2) contains 2 strings of batteries (40 per string).
3. All batteries are CSB HR12200, 200 Watt, 50AH.
4. Each Cabinet includes a DC Circuit Breaker Disconnect with Shunt-trip.
5. Battery Cabinet interconnecting cables not included.
6. Battery Times are based on new batteries, +/- 5%

100kVA & 125kVA Standard External Battery Cabinet(s), Line Up & Match

With 24Volt DC Shunt Trip Circuit Breaker Disconnect

Model Number	kVA	# Cabinets	# Strings	Back Up Time (Minutes)	Number Batteries	Fuse/Breaker Amps Per Cabinet	Dimensions H" x W" x D"	Weight (lbs.)
(1) FLU-BAT-300-2-480-B	100	1	2	15	80	(2) 150/300A	75 x 26.3 x 38	3,700
(1) FLU-BAT-200-1-480-B & (1) FLU-BAT-300-2-480-B	100	2	3	27	120	(1) 200/200A (2) 150/300A	75 x 52.6 x 38	5,800
(2) FLU-BAT-300-2-480-B	100	2	4	40	160	(2) 150/300A	75 x 52.6 x 38	7,400
(1) FLU-BAT-200-1-480-B & (2) FLU-BAT-300-2-480-B	100	3	5	53	200	(1) 200/200A (2) 150/300A	75 x 78.9 x 38	9,500
(3)FLU-BAT-300-2-480-B	100	3	6	67	240	(2) 150/300A	75 x 78.9 x 38	11,100
(1) FLU-BAT-200-1-480-B & (3) FLU-BAT-300-2-480-B	100	4	7	81	280	(1) 200/200A (2) 150/300A	75 x 105.2 x 38	13,200
(1) FLU-BAT-300-2-480-B	125	1	2	10	80	(2) 150/300A	75 x 26.3 x 38	3,700
(1) FLU-BAT-200-1-480-B & (1) FLU-BAT-300-2-480-B	125	2	3	20	120	(1) 200/200A (2) 150/300A	75 x 52.6 x 38	5,800
(2) FLU-BAT-300-2-480-B	125	2	4	30	160	(2) 150/300A	75 x 52.6 x 38	7,400
(1) FLU-BAT-200-1-480-B & (2) FLU-BAT-300-2-480-B	125	3	5	40	200	(1) 200/200A (2) 150/300A	75 x 78.9 x 38	9,500
(3) FLU-BAT-300-2-480-B	125	3	6	50	240	(2) 150/300A	75 x 78.9 x 38	11,100
(1) FLU-BAT-200-1-480-B & (3) FLU-BAT-300-2-480-B	125	4	7	62	280	(1) 200/200A (2) 150/300A	75 x 105.2 x 38	13,200
(4) FLU-BAT-300-2-480-B	125	4	8	73	320	(2) 150/300A	75 x 105.2 x 38	14,800

Notes:

1. FLU-BAT-200-1-480-B Battery Cabinets are field upgradeable to a FLU-BAT-200-2-480-B.
2. Full Battery Cabinet (-2) contains 2 strings of batteries (40 per string).
3. Minimum Battery used on the 100kva and 125kva is a 300-2 cabinet (2 Strings).
4. All batteries are CSB HE12200, 200 Watt, 50AH.
5. Each Cabinet includes a DC Circuit Breaker Disconnect with Shunt-trip.
6. Battery Cabinet interconnecting cables not included.
7. Battery Times are based on new batteries, +/- 5%

160kVA & 250kVA Standard External Battery Cabinet(s), Line Up & Match

with 24Volt DC Shunt Trip Circuit Breaker Disconnect

Model Number	kVA	# Cabinets	# Strings	Back Up Time (Minutes)	Number Batteries	Fuse/Breaker Amps Per Cabinet	Dimensions H" x W" x D"	Weight (lbs.)
(1) FLU-BAT-200-1-480-B & (1) FLU-BAT-300-2-480-B	160	2	3	13	120	(1) 200/200A (2) 150/300A	75 x 52.6 x 38	5,800
(2) FLU-BAT-300-2-480-B & (1) FLU-BAT-200-1-480-B	160	2	4	21	160	(2) 150/300A	75 x 52.6 x 38	7,400
(1) FLU-BAT-200-1-480-B & (2) FLU-BAT-300-2-480-B	160	3	5	29	200	(1) 200/200A (2) 150/300A	75 x 78.9 x 38	9,500
(3) FLU-BAT-300-2-480-B	160	3	6	37	240	(2) 150/300A	75 x 78.9 x 38	11,100
(1) FLU-BAT-200-1-480-B & (3) FLU-BAT-300-2-480-B	160	4	7	45	280	(1) 200/200A (2) 150/300A	75 x 105.2 x 38	13,200
(4) FLU-BAT-300-2-480-B	160	4	8	53	320	(2) 150/300A	75 x 105.2 x 38	14,800
(1) FLU-BAT-200-1-480-B & (1) FLU-BAT-400-2-480-B	200	2	3	9	120	(1) 200/200A (2) 200/400A	75 x 52.6 x 38	5,800
(2) FLU-BAT-400-2-480-B	200	2	4	15	160	(2) 200/400A	75 x 52.6 x 38	7,400
(1) FLU-BAT-200-1-480-B & (2) FLU-BAT-400-2-480-B	200	3	5	21	200	(1) 200/200A (2) 200/400A	75 x 78.9 x 38	9,500
(3) FLU-BAT-400-2-480-B	200	3	6	27	240	(2) 200/400A	75 x 78.9 x 38	11,100
(1) FLU-BAT-200-1-480-B & (3) FLU-BAT-400-2-480-B	200	4	7	34	280	(1) 200/200A (2) 200/400A	75 x 105.2 x 38	13,200
(4) FLU-BAT-400-2-480-B	200	4	8	40	320	(2) 200/400A	75 x 105.2 x 38	14,800
(2) FLU-BAT-400-2-480-B	250	2	4	10	160	(2) 200/400A	75 x 52.6 x 38	7,400
(1) FLU-BAT-200-1-480-B & (2) FLU-BAT-400-2-480-B	250	3	5	15	200	(1) 200/200A (2) 200/400A	75 x 78.9 x 38	9,500
(3) FLU-BAT-400-2-480-B	250	3	6	20	240	(2) 200/400A	75 x 78.9 x 38	11,100
(1) FLU-BAT-200-1-480-B & (3) FLU-BAT-400-2-480-B	250	4	7	25	280	(1) 200/200A (2) 200/400A	75 x 105.2 x 38	13,200
(4) FLU-BAT-400-2-480-B	250	4	8	30	320	(2) 200/400A	75 x 105.2 x 38	14,800

Notes: See notes Page 5

65kVA & 80kVA External Battery Cabinet(s) Non-Line Up & Match)

With 24Volt DC Shunt Trip Circuit Breaker Disconnect

1.

Model Number	kVA	# Cabinets	Total Strings	CB Rating (Amps)	Back Up Time (Minutes)	Number Batteries	Dimensions H" x W" x D"	Weight (lbs.)
STACO-E2480B2ASBHB	65	1	1/MR150	200	6	40	60 x 32.37 x 29.75	1,500
	65	2	2/MR150		18	80	60 x 64.74 x 29.75	3,000
	65	3	3/MR150		31	120	60 x 97.11 x 29.75	4,500
	65	4	4/MR150		45	160	60 x 129.48 x 29.75	6,000
	65	5	5/MR150		59	200	60 x 161.85 x 29.75	7,500
STACO-E3480B2ASBHC	65	1	1/MR210	200	10	40	70.75 x 36.5 x 29.75	2,000
	65	2	2/MR210		29	80	70.75 x 73 x 29.75	4,000
	65	3	3/MR210		49	120	70.75 x 109.5 x 29.75	6,000
	65	4	4/MR210		68	160	70.75 x 146 x 29.75	8,000
	65	5	5/MR210		88	200	70.75 x 182.5 x 29.75	10,000
	65	6	6/MR210		115	240	70.75 x 219 x 29.75	12,000
STACO-E5480B2BSBHD	65	1	1/MR300	250	18	40	78.75 x 40.5 x 29.75	2,875
	65	2	2/MR300		46	80	78.75 x 81 x 29.75	5,750
	65	3	3/MR300		74	120	78.75 x 121.5 x 29.75	8,625
	65	4	4/MR300		106	160	78.75 x 162 x 29.75	11,500
	65	5	5/MR300		134	200	78.75 x 202.5 x 29.75	14,375
STACO-E5480B4ASBHF	65	1	1/MR400	400	27	40	78.75 x 40.5 x 29.75	3,600
	65	2	2/MR400		62	80	78.75 x 81 x 29.75	7,200
	65	3	3/MR400		101	120	78.75 x 121.5 x 29.75	10,800
	65	4	4/MR400		142	160	78.75 x 162 x 29.75	14,400
STACO-E5480B6ASBHH	65	1	1/MR540	600	43	40	78.75 x 40.5 x 29.75	4,600
	65	2	2/MR540		100	80	78.75 x 81 x 29.75	9,200
	65	3	3/MR540		163	120	78.75 x 121.5 x 29.75	13,800
STACO-E3480B2ASBHC	80	1	1/MR210	200	7	40	70.75 x 36.5 x 29.75	2,000
	80	2	2/MR210		21	80	70.75 x 73 x 29.75	4,000
	80	3	3/MR210		38	120	70.75 x 109.5 x 29.75	6,000
	80	4	4/MR210		54	160	70.75 x 146 x 29.75	8,000
	80	5	5/MR210		69	200	70.75 x 182.5 x 29.75	10,000
	80	6	6/MR210		85	240	70.75 x 219 x 29.75	12,000
STACO-E5480B2BSBHD	80	1	1/MR300	250	13	40	78.75 x 40.5 x 29.75	2,875
	80	2	2/MR300		36	80	78.75 x 81 x 29.75	5,750
	80	3	3/MR300		60	120	78.75 x 121.5 x 29.75	8,625
	80	4	4/MR300		82	160	78.75 x 162 x 29.75	11,500
STACO-E5480B4ASBHF	80	1	1/MR400	400	21	40	78.75 x 40.5 x 29.75	3,600
	80	2	2/MR400		51	80	78.75 x 81 x 29.75	7,200
	80	3	3/MR400		79	120	78.75 x 121.5 x 29.75	10,800
	80	4	4/MR400		111	160	78.75 x 162 x 29.75	14,400
STACO-E540B6ASBHH	80	1	1/MR540	600	33	40	78.75 x 40.5 x 29.75	4,600
	80	2	2/MR540		75	80	78.75 x 81 x 29.75	9,200
	80	3	3/MR540		128	120	78.75 x 121.5 x 29.75	13,800
	80	4	4/MR540		180	160	78.75 x 162 x 29.75	18,400

Battery Cabinet interconnecting cables not included.

100kVA & 125kVA External Battery Cabinet(s) Non-Line Up & Match (Continued)

With 24Volt DC Shunt Trip Circuit Breaker Disconnect

1.

Model Number	kVA	# Cabinets	Total Strings	CB Rating (Amps)	Back Up Time (Minutes)	Number Batteries	Dimensions H" x W" x D"	Weight (lbs.)
STACO-E5480B2BSBHD	100	1	1/MR300	250	9	40	78.75 x 40.5 x 29.75	2,875
	100	2	2/MR300		26	80	78.75 x 81 x 29.75	5,750
	100	3	3/MR300		45	120	78.75 x 121.5 x 29.75	8,625
	100	4	4/MR300		62	160	78.75 x 162 x 29.75	11,500
	100	5	5/MR300		82	200	78.75 x 202.5 x 29.75	14,375
	100	6	6/MR300		102	240	78.75 x 243 x 29.75	17,250
STACO-E5480B4ASBHF	100	1	1/MR400	400	15	40	78.75 x 40.5 x 29.75	3,600
	100	2	2/MR400		39	80	78.75 x 81 x 29.75	7,200
	100	3	3/MR400		60	120	78.75 x 121.5 x 29.75	10,800
	100	4	4/MR400		85	160	78.75 x 162 x 29.75	14,400
	100	5	5/MR400		111	200	78.75 x 202.5 x 29.75	18,000
STACO-E5480B6ASBHH	100	1	1/MR540	600	24	40	78.75 x 40.5 x 29.75	4,600
	100	2	2/MR540		60	80	78.75 x 81 x 29.75	9,200
	100	3	3/MR540		97	120	78.75 x 121.5 x 29.75	13,800
	100	4	4/MR540		138	160	78.75 x 162 x 29.75	18,400
	100	5	5/MR540		180	200	78.75 x 202.5 x 29.75	23,000
STACO-E5480B3ASBHD	125	1	1/MR300	300	6	40	78.75 x 40.5 x 29.75	2,875
	125	2	2/MR300		19	80	78.75 x 81 x 29.75	5,750
	125	3	3/MR300		34	120	78.75 x 121.5 x 29.75	8,625
	125	4	4/MR300		49	160	78.75 x 162 x 29.75	11,500
	125	5	5/MR300		63	200	78.75 x 202.5 x 29.75	14,375
	125	6	6/MR300		78	240	78.75 x 243 x 29.75	17,250
	125	7	7/MR300		95	280	78.75 x 283.5 x 29.75	20,125
STACO-E5480B4ASBHF	125	1	1/MR400	400	10	40	78.75 x 40.5 x 29.75	3,600
	125	2	2/MR400		29	80	78.75 x 81 x 29.75	7,200
	125	3	3/MR400		49	120	78.75 x 121.5 x 29.75	10,800
	125	4	4/MR400		66	160	78.75 x 162 x 29.75	14,400
	125	5	5/MR400		85	200	78.75 x 202.5 x 29.75	18,000
	125	6	6/MR400		106	240	78.75 x 243 x 29.75	21,600
	125	7	7/MR400		128	280	78.75 x 283.5 x 29.75	25,200
STACO-E5480B6ASBHH	125	1	1/MR540	600	17	40	78.75 x 40.5 x 29.75	4,600
	125	2	2/MR540		46	80	78.75 x 81 x 29.75	9,200
	125	3	3/MR540		72	120	78.75 x 121.5 x 29.75	13,800
	125	4	4/MR540		105	160	78.75 x 162 x 29.75	18,400
	125	5	5/MR540		139	200	78.75 x 202.5 x 29.75	23,000
	125	6	6/MR540		172	240	78.75 x 243 x 29.75	27,600
STACO-E6480B6ASBFB	125	3	3/MRF700	600	99	120	76.1 x 135.6 x 31.06	18,912
	125	4	4/MRF700		145	160	76.1 x 180.72 x 31.06	25,216
	125	5	5/MRF700		195	200	76.1 x 225.6 x 31.06	31,520

Battery Cabinet interconnecting cables not included.

160kVA to 250kVA External Battery Cabinet(s) Non-Line Up & Match (Continued)

With 24Volt DC Shunt Trip Circuit Breaker Disconnect

Model Number	kVA	# Cabinets	Total Strings	CB Rating (Amps)	Back Up Time (Minutes)	Number Batteries	Dimensions H" x W" x D"	Weight (lbs.)
STACO-E5480B4ASBHF	160	1	1/MR400	400	6	40	78.75 x 40.5 x 29.75	3,600
	160	2	2/MR400		21	80	78.75 x 81 x 29.75	7,200
	160	3	3/MR400		36	120	78.75 x 121.5 x 29.75	10,800
	160	4	4/MR400		51	160	78.75 x 162 x 29.75	14,400
	160	5	5/MR400		64	200	78.75 x 202.5 x 29.75	18,000
	160	6	6/MR400		79	240	78.75 x 243 x 29.75	21,600
STACO-E5480B6ASBHH	160	1	1/MR540	600	10	40	78.75 x 40.5 x 29.75	4,600
	160	2	2/MR540		33	80	78.75 x 81 x 29.75	9,200
	160	3	3/MR540		55	120	78.75 x 121.5 x 29.75	13,800
	160	4	4/MR540		75	160	78.75 x 162 x 29.75	18,400
	160	5	5/MR540		102	200	78.75 x 202.5 x 29.75	23,000
	160	6	6/MR540		128	240	78.75 x 243 x 29.75	27,600
STACO-E6480B6ASBFB	160	3	3/MRF700	600	72	120	76.1 x 135.6 x 31.06	18,912
	160	4	4/MRF700		104	160	76.1 x 180.72 x 31.06	25,216
	160	5	5/MRF700		141	200	76.1 x 225.6 x 31.06	31,520
STACO-E5480B6ASBHH	200	1	1/MR540	600	6	40	78.75 x 40.5 x 29.75	4,600
		2	2/MR540		24	80	78.75 x 81 x 29.75	9,200
		3	3/MR540		42	120	78.75 x 121.5 x 29.75	13,800
		4	4/MR540		60	160	78.75 x 162 x 29.75	18,400
STACO-E6480B6ASBHB	200	4	4/MRF700	600	79	160	76.1 x 180.5 x 31.06	25,216
	200	5	5/MRF700		105	200	76.1 x 225.6 x 31.06	31,520
	200	6	6/MRF700		134	240	76.1 x 270.72 x 31.06	37,825
STACO-E6480B6ASBFB	250	1	1/MRF700	600	6	40	76.1 x 45.12 x 31.06	6,305
	250	2	2/MRF700		24	80	76.1 x 90.24 x 31.06	12,610
	250	3	3/MRF700		43	120	76.1 x 135.6 x 31.06	18,912
	250	4	4/MRF700		62	160	76.1 x 180.72 x 31.06	25,216
	250	5	5/MRF700		78	200	76.1 x 225.6 x 31.06	31,520
	250	6	6/MRF700		99	240	76.1 x 270.72 x 31.06	37,825

Notes:

1. Consult Factory for longer run times.
2. Battery Times are based on new batteries, +/- 5%
3. Battery Cabinet interconnecting cables not included.

FIRSTLINE P 65kVA through 250kVA Options

Top Cable Entry Cabinet

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-CEC	65,80, 100 125	480Y/D	Top Cable Entry Side Car, allows for top or side cable entry.	75 x 15.75 x 33.35	250

65kVA – 250kVA Line Up & Match 4 x 4 Maintenance Bypass (Make – Before – Break)

Part Number	kVA	Voltage	Description	kAIC	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-65-MBPS	65	480- 480Y/277	3 Breaker External Line Up & Match Maintenance Bypass, Top Cable Entry & Interlocks	18	75 x 15.75 x 33.35	245
FLU-P-80-MBPS	80	480- 480Y/277	3 Breaker External Line Up & Match Maintenance Bypass, Top Cable Entry & Interlocks	18	75 x 15.75 x 33.35	245
FLU-P-100-MBPS	100	480- 480Y/277	3 Breaker External Line Up & Match Maintenance Bypass, Top Cable Entry & Interlocks	18	75 x 15.75 x 33.35	250
FLU-P-125-MBPS	125	480- 480Y/277	3 Breaker External Line Up & Match Maintenance Bypass, Top Cable Entry & Interlocks	18	75 x 15.75 x 33.35	250
FLU-P-160-MBPS	160	480- 480Y/277	3 Breaker External Line Up & Match Maintenance Bypass, Top Cable Entry & Interlocks	35	75 x 30 x 33.5	490
FLU-P-200-MBPS	200	480- 480Y/277	3 Breaker External Line Up & Match Maintenance Bypass, Top Cable Entry & Interlocks	35	75 x 30 x 33.5	490
FLU-P-250-MBPS	250	480- 480Y/277	3 Breaker External Line Up & Match Maintenance Bypass, Top Cable Entry & Interlocks	35	75 x 30 x 33.5	490

NOTE: 160kva thru 250kva applications (ALL VOLTAGES) use the 4 x 4 MBPS

65kVA & 80kVA Line Up & Match Input and/or Output Transformer (K20 Shielded) Cabinet

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-65-TC-2Y-2Y	65	208Y/120V- 208Y/120	Line Up and Match 2 x 2 (Y-Y) Input and Output Transformer Cabinet	75 x 33.5 x 33.35	1760
FLU-P-65-TC-4Y-2Y	65	480Y/277V - 208Y/120	Line Up and Match 4 x 2 (Y-Y) Output Transformer Cabinet. Can accept D-D or Y-Y connection For D-D do not connect neutral.	75 x 33.5 x 33.35	1130
FLU-P-65-TC-4D-4Y-B	65	480 - 480Y/277	Line Up and Match 4 x 4 (D-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	2100
FLU-P-65-TC-4D-2Y-B	65	480V- 208Y/120	Line Up and Match 4 x 2 (D-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	2100
FLU-P-80-TC-2Y-2Y	80	208Y/120V- 208Y/120	Line Up and Match 2 x 2 (Y-Y) Input and Output Transformer Cabinet	75 x 33.5 x 33.35	1760
FLU-P-80-TC-2D-2Y-B	80	208V-208V	Line Up and Match 2 x 2 (D-Y) Input and Output Transformer Cabinet	75 x 33.5 x 33.35	2100
FLU-P-80-TC-4Y-2Y	80	480Y/277V - 208Y/120	Line Up and Match 4 x 2 (Y-Y) Output Transformer Cabinet. Can accept D-D or Y-Y connection For D-D do not connect neutral.	75 x 33.5 x 33.35	1130
FLU-P-80-TC-4D-2Y-B	80	480V- 208Y/120	Line Up and Match 4 x 2 (D-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	2100
FLU-P-80-TC-4D-4Y-B	80	480 - 480Y/277	Line Up and Match 4 x 4 (D-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	2100

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100kVA-125kVA Line Up & Match Input and/or Output Transformer (K20 Shielded)

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-100-TC-2Y-2Y	100	208Y/120V- 208Y/120	Line Up and Match 2 x 2 (Y-Y) Input and Output Transformer Cabinet	75 x 33.5 x 33.35	1935
FLU-P-100-TC-2D-2Y-B	100	208V-208V	Line Up and Match 2 x 2 (D-Y) Input and Output Transformer Cabinet	75 x 33.5 x 33.35	2135
FLU-P-100-TC-4Y-2Y	100	480Y/277V - 208Y/120	Line Up and Match 4 x 2 (Y-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	1265
FLU-P-100-TC-4D-2Y-B	100	480V- 208Y/120	Line Up and Match 4 x 2 (D-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	1465
FLU-P-100-TC-4D-4Y-B	100	480 - 480Y/277	Line Up and Match 4 x 4 (D-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	1265
FLU-P-125-TC-2Y-2Y	125	208Y/120V- 208Y/120	Line Up and Match 2 x 2 (Y-Y) Input and Output Transformer Cabinet	75 x 33.5 x 33.35	1855
FLU-P-125-TC-2D-2Y-B	125	208V-208V	Line Up and Match 2 x 2 (D-Y) Input and Output Transformer Cabinet	75 x 33.5 x 33.35	2195
FLU-P-125-TC-4Y-2Y	125	480Y/277V - 208Y/120	Line Up and Match 4 x 2 (Y-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	1225
FLU-P-125-TC-4D-2Y-B	125	480V- 208Y/120	Line Up and Match 4 x 2 (D-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	1565
FLU-P-100-TC-4D-4Y-B	125	480 - 480Y/277	Line Up and Match 4 x 4 (D-Y) Output Transformer Cabinet	75 x 33.5 x 33.35	1225

160 – 250kVA Line Up & Match Input Transformer (K1 Shielded) Cabinet

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-160-ITC-2Y	160	208Y/120V- 480Y/277	Line Up and Match 208V Input Transformer Cabinet 3-wire in/out or 4-wire in/out	75 x 35 x 33.36	1130
FLU-P-160-ITC-6Y	160	600V- 480Y/277	Line Up and Match 600V Input Transformer Cabinet 3-wire in/out or 4-wire in/out	75 x 35 x 33.36	1130
FLU-P-200-ITC-2Y	200	208Y/120V- 480Y/277	Line Up and Match 208V Input Transformer Cabinet 3-wire in/out or 4-wire in/out	75 x 35 x 33.36	2100
FLU-P-200-ITC-6Y	200	600V- 480Y/277	Line Up and Match 600V Input Transformer Cabinet 3-wire in/out or 4-wire in/out	75 x 35 x 33.36	2100
FLU-P-250-ITC-2Y	250	208Y/120V- 480Y/277	Line Up and Match 208V Input Transformer Cabinet 3-wire in/out or 4-wire in/out	75 x 35 x 33.36	2400
FLU-P-250-ITC-6Y	250	600V- 480Y/277	Line Up and Match 600V Input Transformer Cabinet 3-wire in/out or 4-wire in/out	75 x 35 x 33.36	2400

Note: 160kva thru 250kva 4 x 2 and 2 x 2 applications require separate Input and/or Output Transformer Cabinets

160-200kVA Line Up & Match Output Transformer (K1 Shielded) Cabinet

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-160-OTC-4D-2Y-1	160	480-208Y/120	Line Up and Match 480V 3-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K1 rated transformer	75 x 35 x 33.36	1130
FLU-P-160-OTC-4D-4Y-1	160	480-480Y/277	Line Up and Match 480V 3-wire primary, 480Y/277V secondary Output Transformer Cabinet w/K1 rated transformer	75 x 35 x 33.36	1760
FLU-P-160-OTC-4Y-2Y-1	160	480Y/277-208Y/120	Line Up and Match 480V 4-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K1 rated transformer	75 x 35 x 33.36	1130
FLU-P-160-OTC-4Y-6Y-1	160	480-600	Line Up and Match 480V primary, 600V secondary Output Transformer Cabinet w/K1 rated transformer, 3-wire in/out or 4-wire in/out	75 x 35 x 33.36	1130
FLU-P-200-OTC-4D-2Y-1	200	480-208Y/120	Line Up and Match 480V 3-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K1 rated transformer	75 x 35 x 33.36	1470
FLU-P-200-OTC-4D-4Y-1	200	480-480Y/277	Line Up and Match 480V 3-wire primary, 480Y/277V secondary Output Transformer Cabinet w/K1 rated transformer	75 x 35 x 33.36	1470
FLU-P-200-OTC-4Y-2Y-1	200	480Y/277-208Y/120	Line Up and Match 480V 4-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K1 rated transformer	75 x 35 x 33.36	2100
FLU-P-200-OTC-4Y-6Y-1	200	480-600	Line Up and Match 480V primary, 600V secondary Output Transformer Cabinet w/K1 rated transformer, 3-wire in/out or 4-wire in/out	75 x 35 x 33.36	2100

250kVA Line Up & Match Output Transformer (K1 Shielded) Cabinet (Continued)

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-250-OTC-4D-2Y-1	250	480-208Y/120	Line Up and Match 480V 3-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K1 rated transformer	75 x 35 x 33.36	1470
FLU-P-250-OTC-4D-4Y-1	250	480-480Y/277	Line Up and Match 480V 3-wire primary, 480Y/277V secondary Output Transformer Cabinet w/K1 rated transformer	75 x 35 x 33.36	1470
FLU-P-250-OTC-4Y-2Y-1	250	480Y/277-208Y/120	Line Up and Match 480V 4-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K1 rated transformer	75 x 35 x 33.36	2300
FLU-P-250-OTC-4Y-6Y-1	250	480-600	Line Up and Match 480V primary, 600V secondary Output Transformer Cabinet w/K1 rated transformer, 3-wire in/out or 4-wire in/out	75 x 35 x 33.36	2300

Note: 160kva thru 250kva 4 x 2 and 2 x 2 applications require separate Input and/or Output Transformer Cabinets

160 – 200kVA Line Up & Match Output Transformer (K20 Shielded) Cabinet

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-160-OTC-4D-2Y-2	160	480- 208Y/120	Line Up and Match 480V 3-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	1130
FLU-P-160-OTC-4D-4Y-2	160	480- 480Y/277	Line Up and Match 480V 3-wire primary, 480Y/277V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	1760
FLU-P-160-OTC-4Y-2Y-2	160	480Y/277- 208Y/120	Line Up and Match 480V 4-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	1130
FLU-P-160-OTC-4Y-6Y-2	160	480-600	Line Up and Match 480V 4-wire primary, 480Y/277V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	1130
FLU-P-200-OTC-4D-2Y-2	200	480- 208Y/120	Line Up and Match 480V 3-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	1470
FLU-P-200-OTC-4D-4Y-2	200	480- 480Y/277	Line Up and Match 480V 3-wire primary, 480Y/277V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	1470
FLU-P-200-OTC-4Y-2Y-2	200	480Y/277- 208Y/120	Line Up and Match 480V 4-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	2100
FLU-P-200-OTC-4Y-6Y-2	200	480-600	Line Up and Match 480V 4-wire primary, 480Y/277V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	2100

250kVA Line Up & Match Output Transformer (K20 Shielded) Cabinet (Continued)

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-250-OTC-4D-2Y-2	250	480- 208Y/120	Line Up and Match 480V 3-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	2300
FLU-P-250-OTC-4D-4Y-2	250	480- 480Y/277	Line Up and Match 480V 3-wire primary, 480Y/277V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	2300
FLU-P-250-OTC-4Y-2Y-2	250	480Y/277- 208Y/120	Line Up and Match 480V 4-wire primary, 208Y/120V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	2200
FLU-P-250-OTC-4Y-6Y-2	250	480-600	Line Up and Match 480V 4-wire primary, 480Y/277V secondary Output Transformer Cabinet w/K20 rated transformer	75 x 35 x 33.36	2200

Note: 160kva thru 250kva 4 x 2 and 2 x 2 applications require separate Input and/or Output Transformer Cabinets.

65 – 100kVA Line Up & Match Input and/or Output Transformer (K20 Shielded) Cabinet with 3 Breaker Maintenance Bypass (Make – Before – Break)

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-65-TC-2Y-2Y-MBPS	65	208Y/120V- 208Y/120	2 x 2 (Y-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1740
FLU-P-65-TC-2D-2Y-MBPS	65	208V-208V	2 x 2 (D-Y) Input and Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1965
FLU-P-65-TC-4Y-2Y-MBPS	65	480Y/277V -208Y/120	4 x 2 (Y-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1175
FLU-P-65-TC-4D-2Y-MBPS	65	480V- 208Y/120	4 x 2 (D-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1400
FLU-P-65-TC-4D-4Y-MBPS	65	480V- 480Y/277	4 x 4 (D-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1400
FLU-P-80-TC-2Y-2Y-MBPS	80	208Y/120V- 208Y/120	2 x 2 (Y-Y) Input and Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1740
FLU-P-80-TC-2D-2Y-MBPS	80	208V-208V	2 x 2 (D-Y) Input and Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1965
FLU-P-80-TC-4Y-2Y-MBPS	80	480Y/277V- 208Y/120	4 x 2 (Y-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1175
FLU-P-80-TC-4D-2Y-MBPS	80	480V- 208Y/120	4 x 2 (D-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1400
FLU-P-80-TC-4D-4Y-MBPS	80	480V- 480Y/277	4 x 4 (D-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1400
FLU-P-100-TC-2Y-2Y-MBPS	100	208Y/120V- 208Y/120	2 x 2 (Y-Y) Input and Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1950
FLU-P-100-TC-2D-2Y-MBPS	100	208V-208V	2 x 2 (D-Y) Input and Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	2150
FLU-P-100-TC-4Y-2Y-MBPS	100	480Y/277V - 208Y/120	4 x 2 (Y-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1280
FLU-P-100-TC-4D-2Y-MBPS	100	480V- 208Y/120	4 x 2 (D-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1480
FLU-P-100-TC-4D-4Y-MBPS	100	480V- 480Y/277	4 x 4 (D-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1480

Note: 160kva thru 250kva 4 x 2 and 2 x 2 applications require separate Input and/or Output Transformer Cabinets.

125kVA Line Up & Match Input and/or Output Transformer (K20 Shielded) Cabinet with 3 Breaker Maintenance Bypass (Make – Before – Break)

Part Number	kVA	Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-P-125-TC-2Y-2Y-MBPS	125	208Y/120V- 208Y/120	2 x 2 (Y-Y) Input and Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1870
FLU-P-125-TC-2D-2Y-MBPS	125	208V-208V	2 x 2 (D-Y) Input and Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	2210
FLU-P-125-TC-4Y-2Y-MBPS	125	480Y/277V - 208Y/120	4 x 2 (Y-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1240
FLU-P-125-TC-4D-2Y-MBPS	125	480V- 208Y/120	4 x 2 (D-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1580
FLU-P-125-TC-4D-4Y-MBPS	125	480V- 480Y/277	4 x 4 (D-Y) Output Transformer with 3 Breaker MBPS and Interlocks, 18kAIC	75 x 33.5 x 33.35	1580

Matching Output Distribution with Panel Board(s) (PDU)

Part Number	kVA	Output Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-PDC-1	ALL	208V- 208Y/120	Transformerless Line Up & Match Power Distribution (PDU) with (1) 42 Pole 225 Amp Panel board with Main, type Sq. D NQ442L2. Accepts 1, 2 & 3 Pole Branch Circuit Breakers bolt-on or plug-in.	75 x 22 x 33.35	300
FLU-PDC-2	ALL	208V- 208Y/120	Transformerless Line Up & Match Power Distribution (PDU) with (2) 42 Pole 225 Amp Panel boards with Mains, type Sq. D NQ442L2. Accepts 1, 2 & 3 Pole Branch Circuit Breakers bolt-on or plug-in.	75 x 22 x 33.35	325
904-0258	ALL	208V- 208Y/120	Side Panel Kit (2 Panels & 1 Kick Panel). <i>Required when PDC WILL NOT be bolted to the UPS, used as Stand Alone Unit.</i>	N/A	100

NOTE: 1. PDU is ONLY used with systems having 208Y/120V output.
2. Consult Factory for 480V PDU.

Matching Output Sub-Feed Distribution with Circuit Breakers (PDU)

Part Number	kVA	Output Voltage	Description	Dimensions H" x W" x D"	Wt. (lbs.)
FLU-DC-2	65, 80, 100, 125	208V- 208Y/120	Transformerless Line Up & Match Power Distribution (PDU) with (2) 225 Amp Distribution Circuit Breakers	75 x 22 x 33.35	400
FLU-DC-3	65, 80, 100, 125	208V- 208Y/120	Transformerless Line Up & Match Power Distribution (PDU) with (3) 225 Amp Distribution Circuit Breakers	75 x 22 x 33.35	415
FLU-DC-4	65, 80, 100, 125	208V- 208Y/120	Transformerless Line Up & Match Power Distribution (PDU) with (4) 225 Amp Distribution Circuit Breakers	75 x 22 x 33.35	420
904-0258	ALL	208V- 208Y/120	Side Panel Kit (2 Panels & 1 Kick Panel). <i>Required when PDC WILL NOT be bolted to the UPS, used as Stand Alone Unit.</i>	N/A	100

NOTE: 1. PDU is ONLY used with systems having 208Y/120V output.
2. Consult Factory for 480V PDU.

Firstline P Options

Remote Monitor Alarm Panel (RMP)

Part Number	Description
FLU-MultiPanel	<p>MultiPanel - Remote Monitoring Panel device provides a detailed UPS status overview in real time. It shall be compatible with all UPS and can display values for UPS specific input and output supplies, and battery set measurements. MultiPanel has a high-definition graphical display and can report in 7 languages: English, Italian, German, French, Spanish, Russian and Chinese.</p> <p>Includes 3 independent serial ports, one of which allows for UPS monitoring via the MODBUS/JBUS protocol (on either an RS485 or RS232 serial line). The others can be used with devices such as the Netman Plus or a PC running PowerShield software. Includes 120V Power Supply</p>

Environmental Sensors Modules (ESM)

Part Number	Description
FLU-Sensor NetMan SNMP and PowerShield Software required	<p>Netman Environmental Sensor Module: monitor and record environmental conditions as well as activities in protected areas and at the premises where the UPS is installed. Environmental sensors monitor and record environmental conditions and activities within a designated building area. The sensors provide extensive management and control, triggering cooling fans and locks in response to changes in temperature and humidity. Remote monitoring and control can be provided via the internet, SNMP and PowerShield software. NetMan Plus can support up to 6 separate sensors. The environmental sensors are easy to install and do not need a separate external power supply.</p>

Communications

Part Number	Description
FLU-NetMan PowerShield Software NOT included. Must be ordered separate	<p>Netman Plus SNMP Card: allows UPS management across a LAN using any of the main network communication protocols - TCP/IP, HTTP and network interface (SNMP). NetMan Plus enabled UPS integrate easily into medium and large sized networks and provide reliable communications between the UPS and management systems employed.</p>
FLU-MultiCOM1	<p>MultiCOM1 MODBUS/JBUS Card: Protocol converter shall be used to monitor the UPS using the MODBUS/JBUS protocol on RS232 or RS485 serial lines. It can also manage a second independent RS232 serial line that can be used to connect to other devices such as the Netman or a PC using PowerShield software.</p>
FLU-MultiCOM2	<p>MultiCOM 2 Serial/USB Card: shall provide the UPS with an additional RS232 serial interface or USB port. The USB port allows the UPS to communicate with Apple Macintosh computers as well as Windows and Linux operating systems.</p>
FLU-Multi-I/O	<p>Multi I/O Card: Protocol converter shall have a configurable input and output signal contacts to allow UPS integration with control systems. It can be used to connect two devices to a single UPS serial communication port. It can also communicate using the MODBUS/JBUS protocol on RS485 lines</p>

Communications (Continued)

Part Number	Description
FLU-AS400	<p>IBM AS/400 Communication Kit: shall have a single-level memory management feature that makes it compulsory for the system to be shutdown in a controlled and orderly manner. Without UPS protection an AS/400 is not protected from mains failures. A momentary loss of power can cause hardware damage, data corruption and a lengthy reboot period.</p>
FLU-I/O-Expansion	<p>I/O Expansion Card: shall provide addition remote alarm functions as identified below. The card shall contain 6 outputs: potential-free contacts for alarms (programmable from the display panel) (and capable of switching up to 30 V AC or DC at UP 1 Amp) , 2 inputs (programmable from the panel) and 1 12V DC maximum 100mA auxiliary input. 2 additional slots shall be available for a total of 12 additional contacts.</p>

Monitoring and Shutdown Software

Part Number	Description
FLU-PowerShield Not included with NetMan SNMP. Must be ordered separate	<p>Powershield: Communication Software provides efficient, user-friendly UPS management using bar chart displays to show major operational information such as the input voltage, UPS load percent and batteries charge percent. The software also provides detailed information on fault conditions and UPS operating characteristics. PowerShield3 has been developed with a client/server architecture that makes it flexible and easy to use, and provides multi-lingual and on-line support.</p> <p>Operating systems supported include Windows 2000, 2003Server, XP, Vista, 2008 Server, 7, Linux, Novell Netware, Mac OS X and most common UNIX operating systems such as: IBM AIX, HP, SUN Solaris INTEL and SPARC, SCO Uniware and Open Server, Silcon Graphics IRIX, Compaq Tru64 UNIX and DEC UNIX, Open BSD UNIX and FreeBSD UNIX, NCR UMIX, HP Open VMS VMWare ESX and VSPHERE.</p>
FLU-PowerNetGuard NetMan SNMP. Must be ordered separate	<p>PowerNETGuard Supervision software centralizes UPS management using network interface (SNMP) communications. It is ideal for Data Centre managers and medium to large sized networks. PowerNETGuard uses the RFC1628 standard Management Information Base (MIB) and ensures standardized UPS management wherever they are located.</p> <p>Operating systems supported include Windows (98, ME, NT, 2000, 2003, XP and Vista), Kinux, MacOSX, Solaris 8, 9 and 10 and Silcon Grapics IRIX.</p>

Communications

Part Number	Description
FLPL-MODBUS-TCP	TCP Converter w/ Power Supply - Is a converter for the Modbus where the user has programmable applications. TCP is for customers that only use Modbus through TCP. The BASIC programming language enables creation of custom application solutions for the implementation of a serial RS-232/422/485 interface in Ethernet. Includes CD-ROM with examples, additional software and user documentation (PDF) and 120V Power Supply.

Remote EPO Button

Part Number	kVA	Description
904-0300	All	Wall Mount Emergency Power Off (EPO) Button / no cable

Seismic Brackets (Standard ELS Cabinet)

Part Number	Description
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Bolt holes are provided in the base of the UPS, no brackets are required

Seismic Brackets for External non-matching Battery Cabinets

Part Number	Description
BBKT-01072-6	(1) Set Seismic Floor Bolt Down Bracing Brackets, contains (6) each for 1 set Cabinet

Battery Monitoring System (BMS) for STACO Standard Battery Cabinet

Part Number	kVA	Description
FLU-BMS-1	All	Includes all components for Jar Level Monitoring w/ Data Collector
FLU-BMS-2	All	Includes all components for Jar Level Monitoring of each additional string

SERVICE

Preventative Maintenance 5 x 8

Part Number	kW	Description
SERV-FLU-PM-58-01	58.5-112.5	(1) Preventative Maintenance Visit 5 x 8 Normal Business Hours
SERV-FLU-PM-58-02	144-225	(1) Preventative Maintenance Visit 5 x 8 Normal Business Hours

Preventative Maintenance 7 X 24

Part Number	kW	Description
SERV-FLU-PM-724-01	58.5-112.5	(1) Preventative Maintenance Visit 7 x 24, after hours and holidays
SERV-FLU-PM-724-02	144-225	(1) Preventative Maintenance Visit 7 x 24, after hours and holidays

7 x 24 Start Up Service

Part Number	kW	Description
SERV-FLU-SU-724-01	58.5-112.5	Startup adder, 7 x 24, after hours and holidays
SERV-FLU-SU-724-02	144-225	Startup adder, 7 x 24, after hours and holidays

Extended Warranty

Part Number	kW	Description
SERV-FLU-EW24-58-01	58.5-112.5	One Year Extended Warranty – Includes (1) Major Preventative Maintenance visit and (1) UPS Module Parts, Labor & Expenses, 5 x 8 Normal Business Hours, 24 hour response . Batteries Excluded.
SERV-FLU-EW24-724-01	58.5-112.5	One Year Extended Warranty – Includes (1) Major Preventative Maintenance visit and (1) UPS Module Parts, Labor & Expenses, 7 x 24, 24 hour response . Batteries Excluded.
SERV-FLU-EW8-724-01	58.5-112.5	One Year Extended Warranty – Includes (1) Major Preventative Maintenance visit and (1) UPS Module Parts, Labor & Expenses, 7 x 24, 8 hour response . Batteries Excluded.
SERV-FLU-EW4-724-01	58.5-112.5	One Year Extended Warranty – Includes (1) Major Preventative Maintenance visit and (1) UPS Module Parts, Labor & Expenses, 7 x 24, 4 hour response . Batteries Excluded.
SERV-FLU-EW24-58-02	144-225	One Year Extended Warranty – Includes (1) Major Preventative Maintenance visit and (1) UPS Module Parts, Labor & Expenses, 5 x 8 Normal Business Hours, 24 hour response . Batteries Excluded.
SERV-FLU-EW24-724-02	144-225	One Year Extended Warranty – Includes (1) Major Preventative Maintenance visit and (1) UPS Module Parts, Labor & Expenses, 7 x 24, 24 hour response . Batteries Excluded.
SERV-FLU-EW8-724-02	144-225	One Year Extended Warranty – Includes (1) Major Preventative Maintenance visit and (1) UPS Module Parts, Labor & Expenses, 7 x 24, 8 hour response . Batteries Excluded.
SERV-FLU-EW4-724-02	144-225	One Year Extended Warranty – Includes (1) Major Preventative Maintenance visit and (1) UPS Module Parts, Labor & Expenses, 7 x 24, 4 hour response . Batteries Excluded.

NOTE: Must be purchased prior to the expiration of the 2rd Year Standard Warranty.

Response Time Adders (during standard warranty period)

Part Number	kW	Description
SERV-FLU-ADD-08	58.5-225	8 Hour Response Time - One Year Adder to standard warranty (1) UPS Module Parts, Labor & Expenses during standard factory warranty, 7 x 24, 8 hour response . Batteries Excluded.
SERV-FLU-ADD-04	58.5-225	8 Hour Response Time - One Year Adder to standard warranty (1) UPS Module Parts, Labor & Expenses during standard factory warranty, 7 x 24, 4 hour response . Batteries Excluded.

On-Site Training

Part Number	kW	Description
SERV-OST1	58.5-225	Basic/General On -Site Operational Training, (4) Hours, 5 x 8 Normal Business Hours, Concurrent with Start-Up
SERV-OST1-1	58.5-225	Basic/General On - Site Operational Training, (4) Hours, 5 x 8 Normal Business Hours, Conducted after Start-Up
SERV-OST2	58.5-225	1 Day In-Depth On - Site Operational Training, (8) Hours, 5 x 8 Normal Business Hours

Spare Part Kits

Part Number	kW	Description
SPAREL1-FLUP-65/80	58.5, 72	Level 1 Fuses & Fuse Holders
SPAREL2-FLUP-65/80	58.5, 72	Level 2 (Includes Level 1)
SPAREL3-FLUP-65/80	58.5, 72	Level 3 (Includes Levels 1 & 2)
SPAREL1-FLUP-100	90	Level 1 Fuses & Fuse Holders
SPAREL2-FLUP-100	90	Level 2 (Includes Level 1)
SPAREL3-FLUP-100	90	Level 3 (Includes Levels 1 & 2)
SPAREL1-FLUP-125	112.5	Level 1 Fuses & Fuse Holders
SPAREL2-FLUP-125	112.5	Level 2 (Includes Level 1)
SPAREL3-FLUP-125	112.5	Level 3 (Includes Levels 1 & 2)
SPAREL1-FLUP-160	144	Level 1 Fuses & Fuse Holders
SPAREL2-FLUP-160	144	Level 2 (Includes Level 1)
SPAREL3-FLUP-160	144	Level 3 (Includes Levels 1 & 2)
SPAREL1-FLUP-200	180	Level 1 Fuses & Fuse Holders
SPAREL2-FLUP-200	180	Level 2 (Includes Level 1)
SPAREL3-FLUP-200	180	Level 3 (Includes Levels 1 & 2)
SPAREL1-FLUP-250	225	Level 1 Fuses & Fuse Holders
SPAREL2-FLUP-250	225	Level 2 (Includes Level 1)
SPAREL3-FLUP-250	225	Level 3 (Includes Levels 1 & 2)

Warranty Statement

LIMITED WARRANTY For Firstline Series, UNINTERRUPTIBLE POWER SUPPLY PRODUCTS

This Warranty, given ONLY to purchasers buying for commercial / industrial use in the ordinary course of purchaser's business: USA & Canada

General:

Staco Energy Products Co. ("Staco") products and systems are in our opinion the finest available. We take pride in our products and are pleased that you have chosen them. Under certain circumstances we offer with our products the following Warranty Against Defects in Material and Workmanship. **FirstLine PL and FirstLine P, twenty-four (24) months from the ship date or a maximum of thirty (30) months from date the equipment is first energized by an authorized Staco service engineer.** Read your Warranty carefully as it sets forth our responsibilities in the unlikely event of defect and tells you how to obtain performance under this Warranty.

Terms of Warranty:

As provided herein, the Staco product is warranted to be free of defects in material and workmanship for a period defined above. If any part or portion of the Staco product fails to conform to the warranty within the warranty period, Staco will authorize a field service representative to repair the nonconforming Staco product with new or factory remanufactured parts for repair or replacement of that portion or part without charge for labor or parts. Battery manufacturer provides a full, one year with 9 year prorated (total of 10 years) warranty. This warranty is passed-through to the purchaser.

Warranty Extends to First Purchaser for Use, Non-transferable:

This Warranty is extended to the first person, firm, association or corporation for whom the Staco product specified herein is originally installed for use in the United States (the "User"). This Warranty is not transferable or assignable without the prior written permission of Staco.

Assignment of Warranties:

Staco assigns to User any warranties which are made by manufacturers and suppliers of components of the Staco product and which are assignable, but Staco makes NO REPRESENTATIONS as to the effectiveness or extent of such warranties, assumes NO RESPONSIBILITY for any matters which may be warranted by such manufacturers or suppliers and extends no coverage under this warranty to such components.

Drawings, Descriptions:

Staco warrants for the period and on the terms of the Warranty set forth herein that the Staco product will conform to the descriptions contained in the certified drawings, if any, applicable thereto, and to Staco's final invoices, orders, proposals (as modified) and other Staco descriptive documents ("Descriptions"). Staco does not control the use of any Staco product. Accordingly, it is understood that the Descriptions are NOT WARRANTIES OF PERFORMANCE and NOT WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE.

Warranty Claims Procedure:

Within a reasonable time, but in no case to exceed sixty (60) days, after User's discovery of a defect, User shall contact Staco Field Services at 1-866-261-1191. Subject to the limitations specified herein, an authorized Staco field service representative will repair the nonconforming Staco product warranted hereunder, without charge for material or labor. All returns must be authorized by Staco and shipped freight prepaid to Staco Energy products Co. Staco will pay freight charges from factory to customer domestic (US and Canada) location. If replacement parts or components are shipped or caused to be shipped by Staco prior to inspection of the product claimed to be defective, the replacement part or portion shall be invoiced in the full current price amount and shipped freight collect F.O.B. the Staco facility. Warranty coverage will be extended only after Staco's inspection discloses the claimed defect and shows no signs of treatment or use which would void the coverage of this Warranty. Staco, at its option, may accept written reports and photographs supplied by User detailing a claimed defect as evidence to extend warranty coverage.

Warranty Performance of Component Manufacturers:

It is Staco's practice, consistent with its desire to remedy warranty defects in the most prompt and effective manner possible, to cooperate with and utilize the services of component manufacturers and their authorized representatives in the performance of work to correct defects in the Staco products. Accordingly, Staco may utilize third parties in the performance of warranty work, including repair or replacement hereunder, where, in Staco's opinion, such work can be performed in less time, with less expense and in closer proximity to the Staco product.

Items Not Covered By Warranty:

THIS WARRANTY DOES NOT COVER DAMAGE OR DEFECT CAUSED BY misuse, improper application, wrong or inadequate electrical current or connection, inadequate water or drain services, negligence, repair by non-Staco designated personnel, accident in transit, tampering, alterations, a change in location or operating use, exposure to the elements, acts of nature, theft or installation contrary to Staco's recommendations, or in any event if the Staco serial number label or tag has been altered, defaced, or removed.

THIS WARRANTY DOES NOT COVER shipping costs, installation costs, circuit breaker resetting or maintenance or service items and further, except as may be provided herein, does NOT include labor costs or transportation charges arising from the replacement of the Staco product or any part thereof or charges to remove the same from premises of User.

REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT OR PART THEREOF DOES NOT EXTEND THE ORIGINAL WARRANTY PERIOD.

Limitations:

- THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- USER'S SOLE AND EXCLUSIVE REMEDY IS REPAIR OR REPLACEMENT OF THE STACO PRODUCT AS SET FORTH HEREIN.
- IF USER'S REMEDY IS DEEMED TO FAIL OF ITS ESSENTIAL PURPOSE BY A COURT OF COMPETENT JURISDICTION, STACO'S RESPONSIBILITY FOR PROPERTY LOSS OR DAMAGE SHALL NOT EXCEED ONE TIMES THE NET PRODUCT PURCHASE PRICE.
- IN NO EVENT SHALL STACO ASSUME ANY LIABILITY FOR INDIRECT, SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND WHATSOEVER, INCLUDING WITHOUT LIMITATION LOST PROFITS, BUSINESS INTERRUPTION OR LOSS OF DATA, WHETHER ANY CLAIM IS BASED UPON THEORIES OF CONTRACT, NEGLIGENCE, STRICT LIABILITY, TORT, OR OTHERWISE.

Miscellaneous:

- NO SALESPERSON, EMPLOYEE OR AGENT OF STACO IS AUTHORIZED TO ADD TO OR VARY THE TERMS OF THIS WARRANTY.
- Staco obligations under this warranty are conditioned upon proper installation and system start-up by an authorized Staco service engineer and timely receipt of full payment and supersedes all previous warranties. Staco reserves the right to supplement or change the terms of this Warranty in any subsequent warranty offering to User or others.
- In the event that any provision of this Warranty should be or becomes invalid and/or unenforceable during the warranty period, the remaining terms and provisions shall continue in full force and effect.
- This Warranty is given in and performance hereunder is to be construed under the laws of the State of Ohio.
- This Warranty represents the entire agreement between Staco and User with respect to the subject matter herein and supersedes all prior or contemporaneous oral or written communications, representations, understandings or agreements relating to this subject.

International:

Staco Energy Products Co. (Staco), Dayton, Ohio, warrants this equipment, with all applicable terms and conditions stated above, to be free of defects in material and workmanship for a period of twelve (12) months from the ship date or twelve (12) months from the date the equipment is first energized.

Staco Energy Products Co. –FIRSTLINE UL924 "OUST" ELS Model List – 01/15/2015

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