



VERTIV™

7100 ORDERING GUIDE

48V DC Power Solutions
from 200 A to 4000 A



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Description

The modular NetSure™ 7100 power system with 3500 watt or 2000 watt high efficiency rectifiers and 1500 watt high efficiency DC to DC converters provides up to 4000 amps of current for -48 volt systems with up to 520 amps at +24 volts. The basic components of the power system include the NetSure Control Unit (NCU), module mounting shelf assemblies which house the rectifiers and converters, and a modular distribution cabinet. It can be mounted in an enclosure, a relay rack (multiple heights available) or shipping rails for mounting into an existing enclosure or rack.

REQUESTER CONTACT INFORMATION:

Name*	Company*
Address/Zip Code*	Email/Phone*

* These are required fields. Please complete before submitting the form.



NetSure 7100 Main Bay with 4-Row Distribution Cabinet and R48-3500e Rectifiers

Please **SAVE** this form to your desktop.
 Then email the completed form to:
AccountManagement.ESNA@VertivCo.com

Step 1. Choose Enclosure, Relay Rack or Shipping Brackets.

Select one, quantity of one.

LIST NUMBER	VERTIV™ PART NUMBER	DESCRIPTION	QTY.	RACK SPACE	NOTES
n/a	563524	Enclosure, 84"H x 28"W x 28"D		45 RU	Seismic Zone-4
n/a	509638 and 509639	Shipping brackets		22 RU	
n/a	562351	Relay rack, 21.625" H x 24.376" W x 15" D		11 RU	Seismic Zone-4
n/a	562356	Relay rack, 25.656" H x 24.376" W x 15" D		13 RU	Seismic Zone-4
n/a	562357	Relay rack, 27.406" H x 24.376" W x 15" D		14 RU	Seismic Zone-4
n/a	562358	Relay rack, 36.156" H x 24.376" W x 15" D		19 RU	Seismic Zone-4
n/a	562359	Relay rack, 39.656" H x 24.376" W x 15" D		21 RU	Seismic Zone-4
n/a	562360	Relay rack, 43.156" H x 24.376" W x 15" D		23 RU	Seismic Zone-4
n/a	559817	Relay rack, 51.906" H x 24.376" W x 15" D		28 RU	Welded
n/a	562361	Relay rack, 71.156" H x 24.376" W x 15" D		39 RU	Welded
n/a	559818	Relay rack, 72.000" H x 24.375" W x 15" D		37 RU	Welded
n/a	559820	Relay rack, 84.000" H x 24.375" W x 15" D		45 RU	Welded
n/a	562353	Relay rack, 84.000" H x 25.800" W x 18" D		45 RU	Seismic Zone-4
n/a	562355	Relay rack, 85.750" H x 24.375" W x 15" D		46 RU	Welded
n/a	559821	Relay rack, 90.000" H x 24.375" W x 15" D		48 RU	Welded
n/a	559822	Relay rack, 96.000" H x 24.375" W x 15" D		51 RU	Welded



NetSure 7100 Main Bay with 3-Row Distribution Cabinet and R48-2000e3 Rectifiers

Step 2. Choose Common Equipment, Main Bay or Supplemental Bay

Select one, quantity of one.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
List 1	58212700001	Main bay		All complete power plants require one main bay
List 2	58212700002	1st supp bay with rear inter-bay bus, relay rack application		For adjacent expansion of List 1 main bay with rear inter-bay bus, relay rack application
List 3	58212700003	2nd supp bay with rear inter-bay bus , relay rack application		For adjacent expansion of List 2 supplemental bay with rear inter-bay bus, relay rack application
List 5	58212700005	1st supp bay, non-adjacent		For non-adjacent expansion of List 1 main bay. User to supply inter-bay cabling
List 6	58212700006	2nd supp bay, non-adjacent		For non-adjacent expansion of List 1 main bay. User to supply inter-bay cabling
List 7	58212700007	1st supp bay with rear inter-bay bus, enclosure application		For adjacent expansion of List 1 main bay with rear inter-bay bus, enclosure application
List 8	58212700008	2nd supp bay with rear inter-bay bus, enclosure application		For adjacent expansion of List 7 supplemental bay with rear inter-bay bus, enclosure application

Step 2a. Optional – Choose Distribution-Only Kit

Select one, quantity of one if applicable

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
List 4	58212700004	Distribution - only option		To be ordered with supplemental bay if the bay does not include at least one rectifier shelf not required for List 7 and List 8 supplemental bays.


Step 2b. Optional - Choose Enclosure Options

Select quantity as indicated, if applicable.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
n/a	563666	Side Panel		Select quantity of 2, for List 1, 5 and 6 common equipment. Not required for List 7 and List 8 supplemental bays.
n/a	563678	LED Kit		Select quantity of 1 for alarm indication on front of enclosure


Step 2c. Optional – Choose Battery-Top Mounting Kit, Available with Certain Relay Racks

Select one, quantity of one, if applicable












LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	509819	Kit, battery mount transition plates for GNB 3-100G19, 3-100G27, 3-100G33		Consists of two transition plates with three hole patterns and hardware (3/8") to mount the plates to the relay racks ranging from 25.656" H to 71.156" H. Customer must supply hardware to mount the transition plates to the battery.	
n/a	514596	Kit, battery mount transition plates for GNB 6-90G09			
n/a	514880	Kit, battery mount transition plates for GNB 3-100G21, 3-100G25, 3-100G31			

Step 3. Choose Controller

Select one, quantity of one.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	1M830DNA	NetSure™ Control Unit (NCU) Controller		For use in List 1 (Main Bay) only. Standard or special firmware configuration can be assigned. Main bay comes equipped with IB2 interface board which provides (8) programmable and map-pable output relays, (8) programmable binary inputs and (2) temperature inputs.	

Step 4. Optional – Choose Controller Interfaces

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	548120	EIB, extended interface board		For use in List 1 (Main Bay) only. Maximum quantity of one. Provides (5) relay outputs, (2) temperature inputs, (8) battery midpoint monitoring inputs and (3) shunt inputs. Mounts internal to power system.	
n/a	548078	SMDU+, 25-input shunt module		Provides (25) shunt inputs. Maximum quantity of one per bay. For use with GJ/218 Breakers with shunts or TPH or TPL-B fuse panels with shunts. Mounts internal to power system.	
n/a	547490	SMTEMP, 8-input temperature module		Provides (8) temperature inputs. Maximum quantity of eight per system. Mounts external to power system.	
n/a	556155	Temperature probe, 3.3 m, includes 0.3 m sensor		Provides temperature monitoring and alarming for battery or ambient. Battery-assigned probes provide temperature compensation and battery thermal runaway management.	 Temperature Probe Extension Probe
n/a	552992	Temperature probe, 10.3 m, includes 0.3 m sensor		Provides temperature monitoring and alarming for battery or ambient. Battery-assigned probes provide temperature compensation and battery thermal runaway management.	
n/a	04119122	10 m temperature probe extension		Provides 10 meter extension for temperature probe.	
n/a	559252	NCU controller second Ethernet port kit		Provides dual Ethernet feature – one static and one dynamic.	
n/a	431300200	1 amp in-line fuse pigtail kit with 3/8" ring lug		Used for connecting to battery or bus potentials for use with the digital inputs on the IB2 Interface board and the battery midpoint/block voltage inputs on the EIB extended interface board.	
n/a	431300300	1 amp in-line fuse pigtail kit with 5/16" ring lug		Used for connecting to battery or bus potentials for use with the digital inputs on the IB2 interface board and the battery midpoint/block voltage inputs on the EIB extended interface board.	
n/a	535135	In-line fuse pigtail kit with splice connector, 3/8" ring lug, and 1/4" ring lug		Used for connecting to battery or bus potentials for use with the digital inputs on the IB2 Interface board and the battery midpoint/block voltage inputs on the EIB extended interface board.	
n/a	424227900	In-line 49.9 ohm resistor pigtail kit with 3/8" ring lug		Used for connecting to shunts for use with the EIB extended interface board and SMDU+ shunt interface board.	
n/a	424228000	In-line 49.9 ohm resistor pigtail kit with a splice connector		Used for connecting to shunts for use with the EIB extended interface board and SMDU+ shunt interface board.	
n/a	424228100	In-line 49.9 ohm resistor pigtail kit with 5/16" ring lug		Used for connecting to shunts for use with the EIB extended interface board and SMDU+ shunt interface board.	

Step 5. Choose Rectifier or 400 VDC to -48 VDC Converter Shelves by Quantity and Type

If List 4 is selected, skip this step. Otherwise, select List 30, 32 or 36 and one rectifier shelf type or List 34 and one 400 VDC to DC converter shelf type, maximum quantity of five.

Field expansion shelves are also available (see Step 15). A maximum of two field expansion shelves can be added to each bay. In order to ensure maximum ultimate capacity in a bay, a minimum of three shelves (Lists 30, 34 and 36) or four shelves (List 32) must be ordered with the factory configuration. Field expansion shelves require rear access for installation including AC input connections located on the rear of the shelves. Factory installed shelves can have all AC connections located at the front of the system (see Step 6a).

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	RACK SPACE	NOTES	PICTORIAL
Rectifier Shelves						
List 30	58212700030	Interface components for 3 RU rectifier shelf, accommodates 1R483500E 3500 watt rectifiers		n/a	Order one for each rectifier shelf that is ordered	
n/a	58870500021	Rectifier shelf, six position, 438 amps maximum, hard-wired to front of system		3 RU	Order quantity as required (must match quantity of List 30 ordered)	
List 32	58212700032	Interface components for 1 RU rectifier/converter shelf. Accommodates 1R482000E3 2000 watt rectifiers and 1C48241500 1500 watt converters		n/a	Order one for each rectifier shelf that is ordered. Not available with enclosure	
n/a	58870530001	Rectifier shelf, six-position, 250 A at -48 VDC, 188 A at +24 VDC, hard-wired to front of system		1 RU	Order quantity as required (must match quantity of List 32 ordered)	
List 36	58212700036	Interface components for 1RU rectifier shelf, accommodates 1R483500E3 3500 watt rectifiers		n/a	Order one for each rectifier shelf that is ordered	
n/a	58870540001	Rectifier shelf, six position, 438 amps maximum, hard-wired to front of system		1 RU	Order quantity as required (must match quantity of List 36 ordered)	
Converter Shelves						
List 34	58212700034	Interface components for 400 VDC input converter shelf		n/a	Order one for each 400 VDC converter shelf that is ordered. Not available with enclosure	
n/a	58870500040	400 VDC input converter shelf, six position, 438 amps maximum, hard-wired to front of system		3 RU	Order quantity as required (must match quantity of List 34 ordered)	

Step 6a. Choose Input Wiring Scheme

If List 30, 32 or 36 is selected in Step 5, select one, quantity of one.

Skip this step if List 34 was selected in Step 5.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
List 40	58212700040	Front access AC input terminations, single phase, 1 rectifier per AC feed, 208VAC, 240VAC or 277VAC nominal		Provides 1 AC feed per 1 rectifier single phase input terminations for all rectifier positions in the bay
List 41	58212700041	Front access AC input terminations, single phase, 2 rectifiers per AC feed, 208VAC, 240VAC or 277VAC nominal		Provides 1 AC feed per 2 rectifiers single phase input terminations for all rectifier positions in the bay
List 42	58212700042	Front access AC input terminations, three phase, 3 rectifiers per AC feed, 208 VAC or 240 VAC (3-wire, L-L)		Provides 1 AC feed per 3 rectifiers three phase input terminations for all rectifier positions in the bay
List 43	58212700043	Front access AC input terminations, three phase, 3 rectifiers per AC feed, 277/480 VAC (4-wire, L-N)		Provides 1 AC feed per 3 rectifiers three-phase input terminations for all rectifier positions in the bay. Available with List 30 and List 36 rectifiers shelves only.

Step 6b. Choose 400 VDC Input Wiring Schem. Not available with Enclosure

If List 34 is selected in Step 5, select one, quantity of one. Skip this step if List 30, 32 or 36 is selected in Step 5.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
List 45	58212700045	Front access 400 VDC input terminations, 1 converter per DC feed		Provides (1) 400 VDC feed per 1 converter for all converter positions in the bay
List 46	58212700046	Front access 400 VDC input terminations, 2 converters per DC feed		Provides (1) 400 VDC feed per 2 converters for all converter positions in the bay
List 47	58212700047	Front access 400 VDC input terminations, 3 converters per DC feed		Provides (1) 400 VDC feed per 3 converters for all converter positions in the bay







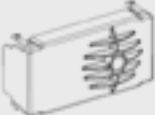
Step 7. Optional – Choose -48 VDC to +24 VDC Converterterm. Not available with Enclosure

Select quantity of List 60 to match quantity of List 32, if desired. Only available with List 32, not with List 30, 34 or 36. To be used in Main Bay (List 1) only.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
List 60	58212700060	Kit, -48 VDC to +24 VDC converter, three positions, 188 amps		Provides interconnect components to allow the three right-most slots in the rectifier shelf to be used for -48 VDC to +24 VDC converters





Step 8. Order Rectifiers and Converter Modules

Select quantity of List 60 to match quantity of List 32, if desired. Only available with List 32, not with List 30. To be used in Main Bay (List 1) only.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	1R483500E3	Rectifier, R48-3500e3, 48VDC, 3500 watts, 1RU		Provides 73 amps at 48 VDC, to be used with List 36 shelf	
n/a	1R483500E	Rectifier, R48-3500e, 48 VDC, 3500 watts, high efficiency, 3 RU		Provides 73 amps at 48 VDC, to be used with List 30 shelf	
n/a	1R482000E3	Rectifier, R48-2000e3, 48 VDC, 2000 watts, high efficiency, 1 RU		Provides 41.8 amps at 48 VDC, to be used with List 32 shelf. Not available with enclosure	<i>R48-3500e</i> <i>R48-3500e3</i>
n/a	1C48241500	Converter, model C48/24-1500, -48 VDC to +24 VDC, 1500 watts		Provides 62.5 amps at 24VDC, to be used with List 32 shelf and List 60 converter option	
n/a	1C400483500E	400 VDC input converter, C400/48-3500e, 48 VDC, 3500 watts, high efficiency, 3 RU		Provides 73 amps at 48 VDC, to be used with List 34 shelf	<i>C48/24-1500</i> 
n/a	21140440	Blank cover, 3 RU rectifier or converter position		Optional cover for empty 3 RU rectifier or converter position, to be used with List 30 or List 34 shelf	 <i>C400/48-3500e</i>  <i>Blank Cover</i>
n/a	SXA1100035-1	Blank cover, 1 RU rectifier or converter position		Optional cover for empty 1 RU rectifier or converter position	 <i>SXA1100035-1</i>


Step 9. Choose Distribution Cabinet Size

Select one, quantity of one.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	RACK SPACE	NOTES	PICTORIAL
List 21	58212700021	Distribution cabinet, one row, 600 amps maximum capacity		7 RU	Accepts one (1) distribution panel Not available with enclosure	 
List 22	58212700022	Distribution cabinet, two rows, 1200 amps maximum capacity		11 RU	Accepts up to two (2) total distribution panels, battery disconnect distribution panels, and/or return bar panel. Not available with enclosure	<i>One Row</i> <i>Two Row</i>
List 23	58212700023	Distribution cabinet, three rows, 1800 amps maximum capacity		15 RU	Accepts up to three (3) total distribution panels, battery disconnect distribution panels, and/or return bar panel	 
List 24	58212700024	Distribution cabinet, four rows, 2000 amps maximum capacity		19 RU	Accepts up to four (4) total distribution panels, battery disconnect distribution panels, and/or return bar panel	<i>Three Row</i> <i>Four Row</i>


Step 9a. Optional – Choose Distribution Cabinet Top Shield

Select if desired.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES	PICTORIAL
List 29	58212700029	Distribution cabinet top shield		Plastic shield covers all wiring access openings in top of distribution cabinet. Individual cutouts can be removed for wiring as required for specific installation.	




Step 9b. Optional – Battery Extension Bus Bar Kit

Select if desired.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	562364	Battery Bus Bar Extension Kit for List 23 and List 24 Distribution Cabinets		Provides five additional battery landing points per polarity.	

Step 10. Choose Distribution Panels














Select one per row. Rows may be left vacant for future expansion. Note restrictions. Select List LL LVLDD for each panel as desired.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	LIST LL - LVLDD (Y/N)	NOTES	PICTORIAL
List AA	582127000AA	Distribution panel, 24-position bullet w/return bar			Mounts in any row.	
List AB	582127000AB	Distribution panel, 24-position bullet w/o return bar			Mounts in any row.	
List AC	582127000AC	Distribution panel, 4-position GJ/218 CB w/return bar			Mounts in any row.	

Step 10. (continued)


LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	LIST LL - LVL'D (Y/N)	NOTES	PICTORIAL
List AD	582127000AD	Distribution panel, 4-position GJ/218 CB w/o return bar			Mounts in any row.	
List AE	582127000AE	Distribution panel, 2-position TPH fuse w/o return bar			Mounts in any row except row 1 (bottom) of a supplemental bay.	
List AF	582127000AF	Distribution panel, 2-position TPH fuse w/shunts w/o return bar			Mounts in any row.	
List AG	582127000AG	Distribution panel, 4-position TPH fuse w/o return bar			Mounts in any row except row 1 (bottom) of a supplemental bay.	
List AH	582127000AH	Distribution panel, 4-position TPH fuse w/shunts w/o return bar			Mounts in any row except row 1 (bottom) of a supplemental bay.	
List AJ	582127000AJ	Distribution panel, 4-position TPL-B fuse w/o return bar			Mounts in any row.	
List AK	582127000AK	Distribution panel, 4-position TPL-B fuse w/shunts w/o return bar			Mounts in any row.	
List AL	582127000AL	Distribution panel, 26-position bullet w/return bar			Mounts in any row.	
List AN	582127000AN	Distribution panel, 26-position bullet w/o return bar			Mounts in any row.	
List AM	582127000AM	Distribution panel, 12-position GJ/218-CB w/return bar		n/a	Mounts in any two rows (occupies two rows)	
List AP	582127000AP	Distribution panel, 12-position GJ/218-CB w/o return bar		n/a	Mounts in any two rows (occupies two rows)	
List BA	582127000BA	Battery disconnect panel, 24-position bullet w/return bar		n/a	For use with Lists 22, 23 and 24 only. Mounts in top row only.	
List BB	582127000BB	Battery disconnect panel, 24-position bullet w/o return bar		n/a	For use with Lists 22, 23 and 24 only. Mounts in top row only.	
List BC	582127000BC	Battery disconnect panel, 4-position GJ/218 CB w/return bar		n/a	For use with Lists 22, 23 and 24 only. Mounts in top row only.	
List BD	582127000BD	Battery disconnect panel, 4-position GJ/218 CB w/o return bar		n/a	For use with Lists 22, 23 and 24 only. Mounts in top row only.	
List BE	582127000BE	Battery disconnect panel, 2-position TPH fuse w/o return bar		n/a	For use with Lists 22, 23 and 24 only. Mounts in top row only.	
List BF	582127000BF	Battery disconnect panel, 2-position TPH fuse w/ shunts w/o return bar		n/a	For use with Lists 22, 23 and 24 only. Mounts in top row only.	
List BG	582127000BG	Battery disconnect panel, 4-position TPH fuse w/o return bar		n/a	For use with Lists 22, 23 and 24 only. Mounts in top row only.	

Step 10. (continued)



LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	LIST LL - LVLVD (Y/N)	NOTES	PICTORIAL
List BH	582127000BH	Battery disconnect panel, 4-position TPH fuse w/ shunts w/o return bar		n/a	For use with Lists 22, 23 and 24 only. Mounts in top row only.	
List DA	582127000DA	Distribution panel, (17) -48 V and (4) +24 V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List DB	582127000DB	Distribution panel, (13) -48 V and (8) +24 V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List DC	582127000DC	Distribution panel, (9) -48 V and (12) +24 V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List DD	582127000DD	Distribution panel, (5) -48V and (16) +24V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List DE	582127000DE	Distribution panel, (20) -48V and (6) +24V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List DF	582127000DF	Distribution panel, (16) -48V and (10) +24V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List DG	582127000DG	Distribution panel, (12) -48V and (14) +24V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List DH	582127000DH	Distribution panel, (8) -48V and (18) +24V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List DJ	582127000DJ	Distribution panel, (4) -48V and (22) +24V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List DK	582127000DK	Distribution panel, (0) -48V and (26) +24V bullet positions w/return bar			For use in List 1 only. Maximum of two located in adjacent rows.	
List EA	582127000EA	Bulk output panel, 1600 amps		n/a	For use with Lists 22, 23 and 24 only.	
List GA	582127000GA	Return bar, 24 lug landing positions		n/a	Mounts in any row.	

Step 11. Choose Distribution Devices for Mounting In Selected Distribution Panels

Step 11a. Choose Bullet-Nose Type Circuit Breakers and Adapter Kits

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
Electrical/ Mechanical Trip Toggle Handle Bullet Breakers						
n/a	101596	1	Black toggle handle		Occupies one position	
n/a	101597	3	Black toggle handle		Occupies one position	
n/a	101598	5	Black toggle handle		Occupies one position	
n/a	101599	10	Black toggle handle		Occupies one position	
n/a	101600	15	Black toggle handle		Occupies one position	
n/a	101601	20	Black toggle handle		Occupies one position	
n/a	101602	25	Black toggle handle		Occupies one position	
n/a	101603	30	Black toggle handle		Occupies one position	
n/a	101604	35	Black toggle handle		Occupies one position	
n/a	101605	40	Black toggle handle		Occupies one position	
n/a	121997	45	Black toggle handle		Occupies one position	
n/a	101606	50	Black toggle handle		Occupies one position	
n/a	101607	60	Black toggle handle		Occupies one position	
n/a	101608	70	Black toggle handle		Occupies one position	
n/a	101609	75	Black toggle handle		Occupies one position	
n/a	121995	80	Black toggle handle		Occupies one position	
n/a	138887	90	Black toggle handle		Occupies one position	
n/a	101610	100	Black toggle handle		Occupies one position, space required	
n/a	516838	125	Black toggle handle		Occupies two positions	
n/a	516839	150	Black toggle handle		Occupies two positions	
n/a	144884	175	Black toggle handle		Occupies two positions, space required	
n/a	121832	200	Black toggle handle		Occupies two positions, space required	
n/a	144886	225	Black toggle handle		Occupies three positions, space required	
n/a	121836	250	Black toggle handle		Occupies three positions, space required	
n/a	149076	300	Black toggle handle		Occupies three positions, space required	



Step 11a. (continued)

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
Electrical Trip Toggle Handle Bullet Breakers						
n/a	102272	1	White toggle handle		Occupies one position	
n/a	102273	3	White toggle handle		Occupies one position	
n/a	102274	5	White toggle handle		Occupies one position	
n/a	102275	10	White toggle handle		Occupies one position	
n/a	102276	15	White toggle handle		Occupies one position	
n/a	102277	20	White toggle handle		Occupies one position	
n/a	102278	25	White toggle handle		Occupies one position	
n/a	102279	30	White toggle handle		Occupies one position	
n/a	102280	35	White toggle handle		Occupies one position	
n/a	102281	40	White toggle handle		Occupies one position	
n/a	121998	45	White toggle handle		Occupies one position	
n/a	102282	50	White toggle handle		Occupies one position	
n/a	102283	60	White toggle handle		Occupies one position	
n/a	102284	70	White toggle handle		Occupies one position	
n/a	102285	75	White toggle handle		Occupies one position	
n/a	121996	80	White toggle handle		Occupies one position	
n/a	138887	90	White toggle handle		Occupies one position	
n/a	102286	100	White toggle handle		Occupies one position, space required	
n/a	516991	125	White toggle handle		Occupies two positions	
n/a	516993	150	White toggle handle		Occupies two positions	
n/a	144883	175	White toggle handle		Occupies two positions, space required	
n/a	121831	200	White toggle handle		Occupies two positions, space required	
n/a	144885	225	White toggle handle		Occupies three positions, space required	
n/a	121835	250	White toggle handle		Occupies three positions, space required	
n/a	149075	300	White toggle handle		Occupies three positions, space required	
Electrical/Mechanical Trip Flat Rocker Handle Bullet Breakers						
n/a	142878	1	Black flat rocker handle		Occupies one position	
n/a	142879	3	Black flat rocker handle		Occupies one position	
n/a	142880	5	Black flat rocker handle		Occupies one position	
n/a	142881	10	Black flat rocker handle		Occupies one position	
n/a	142882	15	Black flat rocker handle		Occupies one position	
n/a	142883	20	Black flat rocker handle		Occupies one position	
n/a	142884	25	Black flat rocker handle		Occupies one position	
n/a	142885	30	Black flat rocker handle		Occupies one position	
n/a	142886	35	Black flat rocker handle		Occupies one position	
n/a	142887	40	Black flat rocker handle		Occupies one position	
n/a	142888	45	Black flat rocker handle		Occupies one position	
n/a	142889	50	Black flat rocker handle		Occupies one position	
n/a	142890	60	Black flat rocker handle		Occupies one position	
n/a	142891	70	Black flat rocker handle		Occupies one position	
n/a	142892	75	Black flat rocker handle		Occupies one position	
n/a	142901	80	Black flat rocker handle		Occupies one position	
n/a	142902	100	Black flat rocker handle		Occupies one position, space required	
n/a	142903	125	Black flat rocker handle		Occupies two positions	
n/a	142904	150	Black flat rocker handle		Occupies two positions	
n/a	142905	200	Black flat rocker handle		Occupies two positions, space required	
n/a	142906	250	Black flat rocker handle		Occupies three positions, space required	



Step 11a. (continued)

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
Electrical Trip Flat Rocker Handle Bullet Breakers						
n/a	142856	1	White flat rocker handle		Occupies one position	
n/a	142857	3	White flat rocker handle		Occupies one position	
n/a	142858	5	White flat rocker handle		Occupies one position	
n/a	142859	10	White flat rocker handle		Occupies one position	
n/a	142861	15	White flat rocker handle		Occupies one position	
n/a	142862	20	White flat rocker handle		Occupies one position	
n/a	142863	25	White flat rocker handle		Occupies one position	
n/a	142864	30	White flat rocker handle		Occupies one position	
n/a	142865	35	White flat rocker handle		Occupies one position	
n/a	142866	40	White flat rocker handle		Occupies one position	
n/a	142867	45	White flat rocker handle		Occupies one position	
n/a	142868	50	White flat rocker handle		Occupies one position	
n/a	142869	60	White flat rocker handle		Occupies one position	
n/a	142870	70	White flat rocker handle		Occupies one position	
n/a	142871	75	White flat rocker handle		Occupies one position	
n/a	142872	80	White flat rocker handle		Occupies one position	
n/a	142873	100	White flat rocker handle		Occupies one position, space required	
n/a	142874	125	White flat rocker handle		Occupies two positions	
n/a	142875	150	White flat rocker handle		Occupies two positions	
n/a	142876	200	White flat rocker handle		Occupies two positions, space required	
n/a	142877	250	White flat rocker handle		Occupies three positions, space required	
Two-Pole and Three-Pole Bullet Breaker Lug Adapters						
n/a	520989	2 Pole	Copper plate adapter		Allows use of standard 1/4" D x 5/8" on center lugs	
n/a	522786	2 Pole	Z-shaped lug adapter		Allows use of standard 3/8" D x 1" on center lugs	
n/a	534449	2 Pole	Lug adapter kit		Allows use of standard 3/8" D x 1" on center lugs	
n/a	514717	3 Pole	Copper plate adapter		Allows use of two-pole (forked, 1/4" D x 5/8" on center) lugs	
n/a	514714	3 Pole	Lug adapter kit		Allows use of standard 3/8" D x 1" on center lugs	

Step 11b. Choose TLS/TPS Fuses with Bullet-Type Fuse Holders

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	117201	-	Fuse holder, TLS/TPS, bullet type		Order one fuse holder per fuse	
n/a	248230900	3	TLS/TPS fuse		Occupies one position	
n/a	248231000	5	TLS/TPS fuse		Occupies one position	
n/a	248231200	6	TLS/TPS fuse		Occupies one position	
n/a	248231500	10	TLS/TPS fuse		Occupies one position	
n/a	248231800	15	TLS/TPS fuse		Occupies one position	
n/a	248232100	20	TLS/TPS fuse		Occupies one position	
n/a	248232400	25	TLS/TPS fuse		Occupies one position	
n/a	248232700	30	TLS/TPS fuse		Occupies one position	
n/a	248233300	40	TLS/TPS fuse		Occupies one position	
n/a	248233900	50	TLS/TPS fuse		Occupies one position	
n/a	248234200	60	TLS/TPS fuse		Occupies one position	
n/a	248234500	70	TLS/TPS fuse		Occupies one position	
n/a	118413	80	TLS/TPS fuse		Occupies one position	
n/a	118414	90	TLS/TPS fuse		Occupies one position	
n/a	118415	100	TLS/TPS fuse		Occupies one position	
n/a	139052	125	TLS/TPS fuse		Occupies one position	





Step 11c. Choose GMT Fuses with GMT Fuse Module

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	550224	-	Fuse module, six GMT fuse positions		Occupies two bullet positions, for use with Lists AA, AB, DA, DB, DC, DD	
n/a	549017	-	Fuse module, six GMT fuse positions		Occupies two bullet positions, for use with Lists AL, AN, DE, DF, DG, DH, DJ, DK	
n/a	248610301	18/100	GMT fuse		Occupies one position	
n/a	248610200	1/4	GMT fuse		Occupies one position	
n/a	248610300	1/2	GMT fuse		Occupies one position	
n/a	248610500	3/4	GMT fuse		Occupies one position	
n/a	248610700	1-1/3	GMT fuse		Occupies one position	
n/a	248610800	2	GMT fuse		Occupies one position	
n/a	248610900	3	GMT fuse		Occupies one position	

Step 11c. Choose GMT Fuses with GMT Fuse Module (continued)

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	248611000	5	GMT fuse		Occupies one position	
n/a	248611300	7-1/2	GMT fuse		Occupies one position	
n/a	248611200	10	GMT fuse		Occupies one position	
n/a	248611500	15	GMT fuse		Occupies one position, space required	
n/a	102774	-	Replacement safety cover	-		
n/a	248872600	-	Replacement dummy fuse		Occupies one position	

Step 11d. Choose GJ/218 Style Breakers and Breaker Mounting Kits

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
Electrical/Mechanical Trip						
n/a	256621700	100	GJ/218 style breaker w/o shunt (black handle)		Occupies one position	
n/a	256621600	125	GJ/218 style breaker w/o shunt (black handle)		Occupies one position	
n/a	256621800	150	GJ/218 style breaker w/o shunt (black handle)		Occupies one position	
n/a	256621900	175	GJ/218 style breaker w/o shunt (black handle)		Occupies one position	
n/a	256622200	200	GJ/218 style breaker w/o shunt (black handle)		Occupies one position	
n/a	256622900	225	GJ/218 style breaker w/o shunt (black handle)		Occupies one position	
n/a	256623500	250	GJ/218 style breaker w/o shunt (black handle)		Occupies one position	
nw/a	256625300	300	GJ/218 style breaker w/o shunt (black handle)		Occupies two positions	
n/a	256626200	400	GJ/218 style breaker w/o shunt (black handle)		Occupies two positions	
n/a	256628200	600	GJ/218 style breaker w/o shunt (black handle)		Occupies three positions	
n/a	121657	800	GJ/218 style breaker w/o shunt (black handle)		Occupies four positions	


Step 11d. (continued)

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	123580	100	GJ/218 style breaker w/shunt (black handle)		Occupies one position, 100 A/25 mV shunt	
n/a	123631	125	GJ/218 style breaker w/shunt (black handle)		Occupies one position, 125 A/25 mV shunt	
n/a	123632	150	GJ/218 style breaker w/shunt (black handle)		Occupies one position, 150 A/25 mV shunt	
n/a	123633	175	GJ/218 style breaker w/shunt (black handle)		Occupies one position, 175 A/25 mV shunt	
n/a	123634	200	GJ/218 style breaker w/shunt (black handle)		Occupies one position, 200 A/25 mV shunt	
n/a	123635	225	GJ/218 style breaker w/shunt (black handle)		Occupies one position, 225 A/25 mV shunt	
n/a	123636	250	GJ/218 style breaker w/shunt (black handle)		Occupies one position, 250 A/25 mV shunt	
n/a	550250	300	GJ/218 style breaker w/shunt (black handle)		Occupies two positions, 300 A/25 mV shunt	
n/a	550251	400	GJ/218 style breaker w/shunt (black handle)		Occupies two positions, 400 A/25 mV shunt	
n/a	550252	600	GJ/218 style breaker w/shunt (black handle)		Occupies three positions, 600 A/25 mV shunt	
Electrical Trip						
n/a	256621300	100	GJ/218 style breaker w/o shunt (white handle)		Occupies one position	
n/a	256621400	125	GJ/218 style breaker w/o shunt (white handle)		Occupies one position	
n/a	256622400	150	GJ/218 style breaker w/o shunt (white handle)		Occupies one position	
n/a	256622500	175	GJ/218 style breaker w/o shunt (white handle)		Occupies one position	
n/a	256622600	200	GJ/218 style breaker w/o shunt (white handle)		Occupies one position	
n/a	256622700	225	GJ/218 style breaker w/o shunt (white handle)		Occupies one position	
n/a	256623400	250	GJ/218 style breaker w/o shunt (white handle)		Occupies one position	
n/a	103572	300	GJ/218 style breaker w/o shunt (white handle)		Occupies two positions	
n/a	256626300	400	GJ/218 style breaker w/o shunt (white handle)		Occupies two positions	
n/a	103571	600	GJ/218 style breaker w/o shunt (white handle)		Occupies three positions	


Step 11d. (continued)

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	121658	800	GJ/218 style breaker w/o shunt (white handle)		Occupies four positions	
n/a	516184	100	GJ/218 style breaker w/shunt (white handle)		Occupies one position, 100 A/25 mV shunt	
n/a	516187	125	GJ/218 style breaker w/shunt (white handle)		Occupies one position, 125 A/25 mV shunt	
n/a	516185	150	GJ/218 style breaker w/shunt (white handle)		Occupies one position, 150 A/25 mV shunt	
n/a	516186	175	GJ/218 style breaker w/shunt (white handle)		Occupies one position, 175 A/25 mV shunt	
n/a	516188	200	GJ/218 style breaker w/shunt (white handle)		Occupies one position, 200 A/25 mV shunt	
n/a	516189	225	GJ/218 style breaker w/shunt (white handle)		Occupies one position, 225 A/25 mV shunt	
n/a	516190	250	GJ/218 style breaker w/shunt (white handle)		Occupies one position, 250 A/25 mV shunt	
n/a	550253	300	GJ/218 style breaker w/shunt (white handle)		Occupies two positions, 300 A/25 mV shunt	
n/a	550254	400	GJ/218 style breaker w/shunt (white handle)		Occupies two positions, 400 A/25 mV shunt	
n/a	550255	600	GJ/218 style breaker w/shunt (white handle)		Occupies three positions, 600 A/25 mV shunt	
n/a	550249	800	GJ/218 style breaker w/shunt (white handle)		Occupies four positions, 800 A/25 mV shunt	
GJ/218 Breaker Mounting Kits						
n/a	503787	1 Pole	GJ/218 breaker mounting kit w/o shunt		Order 1 for each 1-pole GJ/218 CB w/o shunt	
n/a	513961	2 Pole	GJ/218 breaker mounting kit w/o shunt		Order 1 for each 2-pole GJ/218 CB w/o shunt	
n/a	513957	3 Pole	GJ/218 breaker mounting kit w/o shunt		Order 1 for each 3-pole GJ/218 CB w/o shunt	
n/a	554091	4 Pole	GJ/218 breaker mounting kit w/o shunt		Order 1 for each 4-pole GJ/218 CB w/o shunt	
n/a	513731	1 Pole	GJ/218 breaker mounting kit w/shunt		Order 1 for each 1-pole GJ/218 CB w/ shunt	
n/a	554092	2 Pole	GJ/218 breaker mounting kit w/shunt		Order 1 for each 2-pole GJ/218 CB w/ shunt	
n/a	554093	3 Pole	GJ/218 breaker mounting kit w/shunt		Order 1 for each 3-pole GJ/218 CB w/ shunt	
n/a	554094	4 Pole	GJ/218 breaker mounting kit w/shunt		Order 1 for each 4-pole GJ/218 CB w/ shunt	
n/a	562888	3 Pole	GJ/218 breaker lug adapter allows two lugs up to 2.0" width on one breaker		For use in Lists AM and AP. Order one for each 3-pole breaker as desired.	

Step 11e. Choose TPH Style Fuses

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	119437	70	TPH fuse			
n/a	119438	80	TPH fuse			
n/a	119440	100	TPH fuse			
n/a	119581	150	TPH fuse			
n/a	119582	200	TPH fuse			
n/a	119583	225	TPH fuse			
n/a	119584	250	TPH fuse			
n/a	119585	300	TPH fuse			
n/a	119586	400	TPH fuse			
n/a	119587	500	TPH fuse			
n/a	119588	600	TPH fuse			

Step 11f. Choose TPL-B Style Fuses

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	248251500	70	TPL-B fuse			
n/a	248252000	80	TPL-B fuse			
n/a	248252600	100	TPL-B fuse			
n/a	248253300	150	TPL-B fuse			
n/a	248254000	200	TPL-B fuse			
n/a	248254500	225	TPL-B fuse			
n/a	248255000	250	TPL-B fuse			

Step 11g. Optional – Choose Hardware Kits

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
n/a	541084	Hardware kit, 1/4", (32) nuts, locks, flats		Accommodates (8) bullet positions
n/a	548184	Hardware kit, 3/8", (16) bolts, locks, flats		Accommodates (4) GJ/218 positions
n/a	548185	Hardware kit, 3/8", (16) nuts, locks, flats		Accommodates (4) TPH or TPL-B positions

Step 12. Optional – Choose Battery Shunt

Select one, quantity of one, if desired. Note restrictions.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
List 90	58212700090	Battery shunt, 800 A		For use with List 21 only
List 91	58212700091	Battery shunt, 2000 A		For use with List 22 only
List 92	58212700092	Battery shunt, 2500 A		For use with Lists 23 and 24 only

Step 13. Optional – Choose Battery Contactor for Manual and/or Low Voltage Battery Disconnect

Select one, quantity of one, if desired. Note restrictions.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
List CA	582127000CA	Battery contactor, 600 A		For use with List 21 only. Must be used with List LB or MB or both.
List CB	582127000CB	Battery contactor, 1200 A		For use with List 22, 23 or 24 only. Must be used with List LB or MB or both.
List CC	582127000CC	Battery contactor, 2000 A		For use with List 22, 23 or 24 only. Must be used with List LB or MB or both.

Step 13a. Optional – Choose Low Voltage Battery Disconnect

Select one, quantity of one, if desired. Note restrictions.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
List LB	582127000LB	Low voltage battery disconnect		System must have List CA, CB or CC

Step 13b. Optional – Choose Manual Battery Disconnect

Select one, quantity of one, if desired. Note restrictions.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES
List MB	582127000MB	Manual battery disconnect switch		System must have List CA, CB or CC


Step 14. Optional – Choose Battery Tray(s). Not available with Enclosure

Select quantity and vertical rack spacing as desired and as relay rack space allows.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	RACK SPACE	NOTES	PICTORIAL
List 93	58212700093	Battery tray, pre-cabled		6 RU, 7 RU or 8 RU	Provides a battery tray factory mounted in the relay rack specified when ordered. Each battery tray holds four (4) 12 V front terminal valve regulated lead acid (VRLA) batteries. Battery cabling is factory provided and connected to the system's main busbars. Batteries are configured as one (1) 48 V string per tray. Spacing is automatically set if battery manufacturer and part number is identified.	
n/a	555478	Battery termination bus kit		n/a	Termination bus bar assembly for battery cables, automatically added to system when one or more List 93 is ordered with List 22, 23 or 24.	
n/a	553584	Battery termination bus kit		n/a	Termination bus bar assembly for battery cables, automatically added to system when one or more List 93 is ordered with List 21.	

Step 14a. Optional – Choose Battery Front Cover

Select based on tray spacing, if desired.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	RACK SPACE	NOTES	PICTORIAL
n/a	548022	Cover, front, battery tray		6 RU	Provides a front battery cover to the List 93 battery tray	
n/a	548021	Cover, front, battery tray		7 RU	Provides a front battery cover to the List 93 battery tray	
n/a	548020	Cover, front, battery tray		8 RU	Provides a front battery cover to the List 93 battery tray	





Step 14b. Optional – Choose Battery Tray Disconnect Breakers

Select rating at quantity equal to List 93, if desired.

LIST NUMBER	VERTIV PART NUMBER	AMPERE RATING	DESCRIPTION	QTY.	NOTES
n/a	256694300	50	Breaker, 50 A, E/M-trip alarm		Requires 559813 or 559814 housing kit
n/a	256694700	60	Breaker, 60 A, E/M-trip alarm		Requires 559813 or 559814 housing kit
n/a	256695100	70	Breaker, 70 A, E/M-trip alarm		Requires 559813 or 559814 housing kit
n/a	256695500	75	Breaker, 75 A, E/M-trip alarm		Requires 559813 or 559814 housing kit
n/a	256695900	100	Breaker, 100 A, E/M-trip alarm		Requires 559813 or 559814 housing kit
n/a	100765	125	Breaker, 125 A, E/M-trip alarm		Requires 559815 or 559816 housing kit
n/a	100763	150	Breaker, 150 A, E/M-trip alarm		Requires 559815 or 559816 housing kit
n/a	121810	200	Breaker, 200 A, E/M-trip alarm		Requires 559815 or 559816 housing kit

Step 14c. Optional – Choose Housing Kit for Battery Disconnect Breakers

Select kit by breaker size and location, if desired. Required if battery disconnect breakers are selected.

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	NOTES	PICTORIAL
n/a	559813	Breaker housing kit, 1-pole, right side		Mounts on right side of battery tray. Accommodates breakers 50 A to 100 A	
n/a	559814	Breaker housing kit, 1-pole, left side		Mounts on left side of battery tray. Accommodates breakers 50 A to 100 A	
n/a	559815	Breaker housing kit, 2-pole, right side		Mounts on right side of battery tray. Accommodates breakers 125 A to 200 A	
n/a	559816	Breaker housing kit, 2-pole, left side		Mounts on left side of battery tray. Accommodates breakers 125 A to 200 A	

Step 15. Order Accessories and Spare Parts

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	RACK SPACE	NOTES
Rectifier Expansion Shelves					
31	58212700031	Rectifier mounting shelf field expansion kit for 3 RU rectifier shelves		n/a	Order as required for field expansion rectifier shelf, maximum of two per system. Must also order equal quantity of shelf type from the following three selections.
n/a	58870500031	Rectifier shelf, single-phase input		3 RU	Order the same quantity as List 31, maximum of two per system.
n/a	58870500032	Rectifier shelf, three-phase input, 208 VAC or 240 VAC		3 RU	Order the same quantity as List 31, maximum of two per system.
n/a	58870500033	Rectifier shelf, three-phase input, 277/480 VAC		3 RU	Order the same quantity as List 31, maximum of two per system.
n/a	58870500022	Rectifier shelf, single-phase input with line cords		3 RU	Order the same quantity as List 31, maximum of two per system.
33	58212700033	1RU rectifier/converter expansion shelf		1 RU	Order as required for field expansion rectifier/converter shelf, maximum of two per system. To be used only to expand system with List 32 shelves (1 RU). Must order line cords (540946 or 545616), three per shelf.
37	58212700037	Rectifier mounting shelf field expansion kit, for 1RU rectifier shelves		n/a	Order as required for field expansion rectifier shelf, maximum of two per system. Must also order equal quantity of shelf type from the following three selections.
n/a	58870540002	Rectifier shelf, single-phase input		1 RU	Order the same quantity as List 37, maximum of two per system. Must order line cords (540946 or 545616), six required per shelf.
n/a	58870540003	Rectifier shelf, three-phase input, 208 to 240VAC, 3L+PE		1 RU	Order the same quantity as List 37, maximum of two per system. Must order line cords (562046), two required per shelf.
n/a	58870540004	Rectifier shelf, three-phase input, 277/480VAC 3L+N+PE		1 RU	Order the same quantity as List 37, maximum of two per system. Must order line cords (562045), two required per shelf.
n/a	540946	Line cord, single-phase, 14 feet, L6-30P twist lock		n/a	To be used with shelves 58870530003 and 58870540002
n/a	545616	Line cord, single-phase, 6 feet, L6-30P twist lock		n/a	To be used with shelves 58870530003 and 58870540002
n/a	562046	Line cord, three-phase, 13 feet, L15-50P twist lock		n/a	To be used with shelf 58870540003
n/a	562045	Line cord, three-phase, 13 feet, L22-20P twist lock		n/a	To be used with shelf 58870540004
Converter Expansion Shelves – 400 VDC Input					
35	58212700035	400 VDC input converter mounting shelf field expansion kit		n/a	Order as required for field expansion converter shelf, maximum of two per system. Must also order equal quantity of shelf type from the following two selections.
n/a	58870500041	400 VDC input converter shelf, 1 converter per DC feed		3 RU	Order the same quantity as List 35, maximum of two per system.
n/a	58870500042	400 VDC input converter shelf, 3 converters per DC feed		3 RU	Order the same quantity as List 35, maximum of two per system.

Step 15. Order Accessories and Spare Parts (continued)

LIST NUMBER	VERTIV PART NUMBER	DESCRIPTION	QTY.	RACK SPACE	NOTES
Spare Parts					
n/a	556166	System interface circuit card		n/a	Replacement/spare part
n/a	MA4C5U31	IB2 interface circuit card		n/a	Replacement/spare part
n/a	548120	EIB interface circuit card		n/a	Replacement/spare part
n/a	548078	SMDU+ interface circuit card		n/a	Replacement/spare part
n/a	563696	LVD driver circuit card, main bay		n/a	Replacement/spare part
n/a	563718	LVD driver circuit card, supplemental bay		n/a	Replacement/spare part
n/a	547873	LVD driver lite circuit card, main bay		n/a	Replacement/spare part
n/a	547874	LVD driver lite circuit card, supplemental bay		n/a	Replacement/spare part
n/a	540973	Manual battery disconnect circuit card		n/a	Replacement/spare part
n/a	552822	Temperature probe sensor		n/a	Replacement/spare part
n/a	514640	Cable, Cat5, 25', bay to bay interconnect		n/a	Replacement/spare part

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