



NetSure™ 5100 Ordering Guide

-48V DC Power System
582137100, 58870530036



NetSure™ 5100 Ordering Guide

Description

The NetSure™ 5100 Series, a compact -48 volt 600 A DC power solution, features an advanced control unit, up to (29) positions for 2000 W high-efficiency eSure™ rectifiers or -58V/2000 watt peak or +24V/1500 watt converters or 2000 W solar converters, a single, bulk or dual row distribution cabinet, optional inverter system, and solar connectivity panels. The power system supports 19" W and 23" W rack mounting and is available in a number of configurations, designed to work with a wide range of applications.

The distribution cabinet supports up to (52) 1 A to 300 A circuit breakers or 1 A to 100 A TPS/TLS fuses. Options for battery disconnect breaker positions and dual voltage (-48 V/-58 V or +24 V) breaker positions are available. Multiple LVD levels are supported, allowing load prioritization in up to two steps.

Directly below the power system a DC to AC inverter system can be factory mounted, providing up to 12kVA with a 120 VAC output. Complete with either a receptacle output or a bulk output this high efficiency inverter system provides AC power for long or short AC outages.

Remote monitoring and control is supported through multiple web browsers including IE, Firefox, Chrome and Safari. Standard supported protocols include ModBus and SNMP. Encrypted security is also available as an option. Local access is provided through the controllers' keypad and TFT display. NetSure DC Power systems from Vertiv offer extremely low failure rates, as well as low total cost of ownership.

The 2000 W eSure™ rectifier delivers peak system efficiency above 96%. Maximum value is achieved by an advanced energy optimization function known as ECO mode, enabling significant energy savings even at low loads.



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Requester Contact Information:

Name*

Company*

Address*

Zip Code*

Email*

Phone*

Please **SAVE** this form to your desktop. Then press the submit button below

* These are required fields. Please complete.



eSure Rectifier, R48-2000e3



19" W NetSure 5100 DC Power System



23" W NetSure 5100 DC Power System

Step 1. Choose How the Power System will be Mounted

Select one, quantity of one.

| Mount | Description | Qty. |
|------------------------------|--------------------------------------|------|
| Relay rack mount | 5" projection | |
| Relay rack mount | Flush projection | |
| Data cabinet mount | Flush projection (19"W systems only) | |
| Vertiv outside plant cabinet | | |

Step 2. Optional – Choose 19" W or 23" W Relay Rack

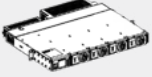




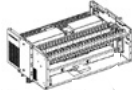
Select one, quantity of one.

| List Number | Vertiv™ Part Number | Description | Qty. | Rack Space | Notes |
|-------------|---------------------|--|------|------------|------------------|
| n/a | 559817 | Relay rack, 51.906"H x 24.376"W x 15"D | | 28 RU | 23" W - Welded. |
| n/a | 559819 | Relay rack, 84.000"H x 25.000"W x 15"D | | 45 RU | 23" W - Seismic. |
| n/a | 559818 | Relay rack, 72.000"H x 24.375"W x 15"D | | 37 RU | 23" W - Welded. |
| n/a | 559820 | Relay rack, 84.000"H x 24.375"W x 15"D | | 45 RU | 23" W - Welded. |
| n/a | 559821 | Relay rack, 90.000"H x 24.375"W x 15"D | | 48 RU | 23" W - Welded. |
| n/a | 559822 | Relay rack, 96.000"H x 24.375"W x 15"D | | 51 RU | 23" W - Welded. |
| n/a | 562353 | Relay Rack, 84.000"H x 25.800"W x 18"D | | 45 RU | 23" W - Seismic* |
| n/a | 10009902 | Relay Rack, 84.000"H x 25.800"W x 18"D | | 45 RU | 23" W - Seismic* |
| n/a | 559824 | Relay rack, 84.000"H x 21.000"W x 15"D | | 45 RU | 19" W - Welded. |
| n/a | 559823 | Relay rack, 84.000"H x 20.375"W x 15"D | | 45 RU | 19" W - Seismic. |
| n/a | 563922 | Relay rack, 84.000"H x 21.800"W x 18"D | | 45 RU | 19" W - Seismic* |

* For power systems mounted in relay racks with more than one battery tray.

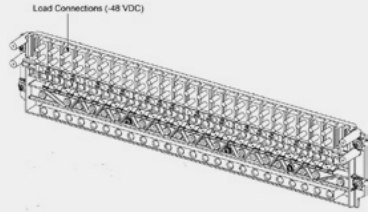
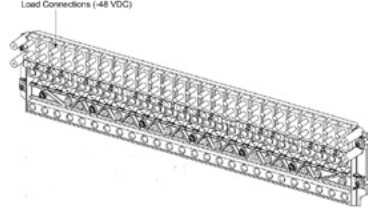
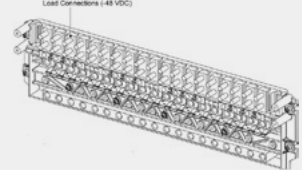
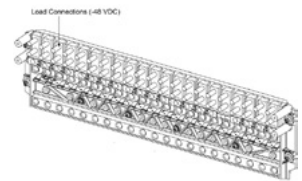
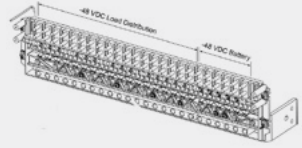
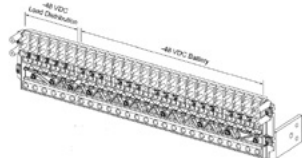
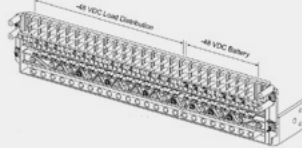
Step 3. Choose Distribution Cabinet or Bulk Power Shelf

Select one, quantity of one.

| List Number | Vertiv™ Part Number | Description | Qty. | Rack Space | Notes | Pictorial |
|-------------|---------------------|--|------|------------|---|---|
| n/a | 58870530036 | Bulk output shelf e/w controller slot, 19" W. Skip to Step 9 . | | 1 RU | Stand alone system. |  |
| List 20 | 58213710020 | Distribution cabinet, one row, 19" W | | 4 RU | Accepts one distribution panel. |  |
| List 21 | 58213710021 | Distribution cabinet, two rows, 19" W | | 8 RU | Accepts two distribution panels. |  |
| List 25 | 58213710025 | Distribution cabinet, one row, 23" W | | 4 RU | Accepts one distribution panel. |  |
| List 26 | 58213710026 | Distribution cabinet, two rows, 23" W | | 8 RU | Accepts two distribution panels including a split bus, dual voltage panel. |  |
| List 27 | 58213710027 | Distribution cabinet, one row, 23" W | | 4 RU | Accepts one List DF (26) position distribution panel. No LVD can be used with this distribution cabinet. This distribution panel cannot be used with the inverter system. |  |

Step 4. Choose Distribution Panels

Select one per row. Two row cabinet must include (2) panels. Note restrictions.

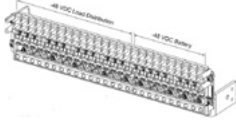
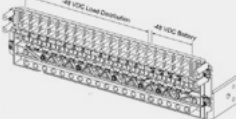
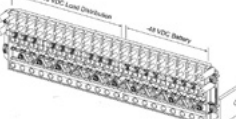
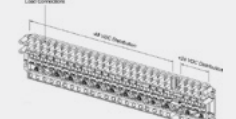
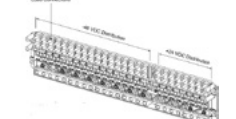
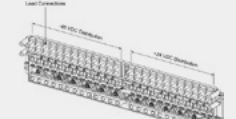
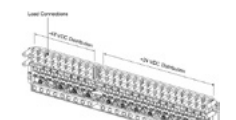
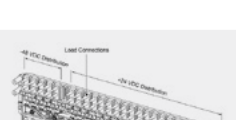

| List Number | Vertiv™ Part Number | Description | Qty. | Notes | Pictorial |
|-------------|---------------------|---|------|--|---|
| List AA | 582137100AA | 23" W distribution panel, 24 load-position bullet | | Mounts in single row cabinet. |  |
| List AB | 582137100AB | 23" W distribution panel, 26 load-position bullet | | Mounts in two row cabinet. |  |
| List AN | 582137100AN | 19" W distribution panel, 19-position bullet | | Mounts in single row cabinet. |  |
| List AO | 582137100AO | 19" W distribution panel, 21-position bullet | | Mounts in two row cabinet. |  |
| List BA* | 582137100BA | 23" W distribution/battery panel, 18 load/6 battery-position bullet | | Mounts in single row cabinet. |  |
| List BB* | 582137100BB | 23" W distribution/battery panel, 6 load/20 battery-position bullet | | Mounts in two row cabinet (bottom row only). |  |
| List BC* | 582137100BC | 23" W distribution/battery panel, 16 load/8 battery-position bullet | | Mounts in single row cabinet. |  |

*Panels with battery disconnect breaker positions cannot be used with the inverter system.

NetSure™ 5100 Ordering Guide

Step 4. (continued)

Select one per row. Two row cabinet must include (2) panels. Note restrictions.

| List Number | Vertiv™ Part Number | Description | Qty. | Notes | Pictorial |
|-------------|---------------------|--|------|---|---|
| List BD* | 582137100BD | 23" W distribution/battery panel, 16 load/10 battery-position bullet | | Mounts in two row cabinet (bottom row only). |  |
| List BN* | 582137100BN | 19" W distribution/battery panel, 14 load/5 battery-position bullet | | Mounts in single row cabinet. |  |
| List BO* | 582137100BO | 19" W distribution/battery panel, 12 load/9 battery-position bullet | | Mounts in two row cabinet (bottom row only). |  |
| List DA | 582137100DA | 23" W dual voltage distribution panel, (21) 48V/(4) 24V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only). |  |
| List DB | 582137100DB | 23" W dual voltage distribution panel, (17) 48V/(8) 24V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only). |  |
| List DC | 582137100DC | 23" W dual voltage distribution panel, (13) 48V/(12) 24V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only). |  |
| List DD | 582137100DD | 23" W dual voltage distribution panel, (9) 48V/(16) 24V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only). |  |
| List DE | 582137100DE | 23" W dual voltage distribution panel, (5) 48V/(20) 24V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only). |  |
| List DF | 582137100DF | 23" W Distribution panel, 26 Load-position bullet w/return bar | | Mounts in single row List 27 cabinet. |  |

*Panels with battery disconnect breaker positions cannot be used with the inverter system.

Step 4. (continued)

Select one per row. Two row cabinet must include (2) panels. Note restrictions.

| List Number | Vertiv™ Part Number | Description | Qty. | Notes | Pictorial |
|-------------|---------------------|--|------|---|-----------|
| List FA | 582137100FA | 23" W dual voltage distribution panel, (22) 48V/(4) 58V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only) | |
| List FB | 582137100FB | 23" W dual voltage distribution panel, (18) 48V/(8) 58V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only) | |
| List FC | 582137100FC | 23" W dual voltage distribution panel, (14) 48V/(12) 58V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only) | |
| List FD | 582137100FD | 23" W dual voltage distribution panel, (10) 48V/(16) 58V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only) | |
| List FE | 582137100FE | 23" W dual voltage distribution panel, (6) 48V/(20) 58V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only) | |
| List FF | 582137100FF | 23" W single voltage distribution panel, (26) 58V DC load-position bullet | | Mounts in 23" W two row cabinet (top row only) | |
| List GB | 582137100GB | 23" W single voltage distribution panel, (26) 58V DC load-position bullet | | Mounts in 23" W two row cabinet (bottom row only) | |

Note: List GB cannot be paired with a List DA-DF panel in the top row.

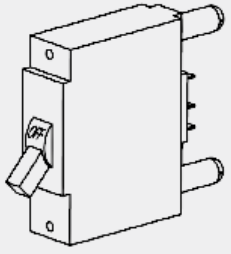
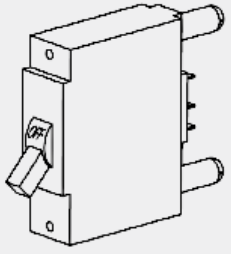
Step 5. Optional – Choose 20 Position GMT Fuse Module

Note: Not available with 58870530036 bulk output shelf.

| List Number | Vertiv™ Part Number | Description | Qty. | Notes |
|-------------|---------------------|------------------------------|------|---|
| List KG | 582137100KG | (20) position GMT fuse panel | | Mounts below last rectifier shelf. Cannot be used with the inverter system. |

Step 6. Choose Distribution/Battery Devices for Selected Distribution Panels

Step 6a. Choose Bullet-Nose Type Circuit Breaker

| 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, space required. | |
| n/a | 101610 | 100 | Black toggle handle | | Occupies one position, space required. | |
| n/a | 516838 | 125 | Black toggle handle | | Occupies two positions, space required. | |
| n/a | 516839 | 150 | Black toggle handle | | Occupies two positions, space required. | |
| 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. | |
| 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. | |

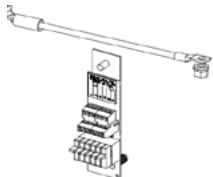
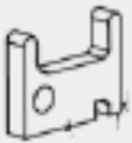
| List Number | Vertiv™ Part Number | Ampere Rating | Description | Qty. | Notes | Pictorial |
|--|---------------------|---------------|---------------------|------|---|-----------|
| Electrical Trip Toggle Handle Bullet Breakers | | | | | | |
| n/a | 102282 | 50 | White toggle handle | | Occupies one 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, space required. | |
| n/a | 102286 | 100 | White toggle handle | | Occupies one position, space required. | |
| n/a | 516991 | 125 | White toggle handle | | Occupies two positions, space required. | |
| n/a | 516993 | 150 | White toggle handle | | Occupies two positions, space required. | |
| 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. | |

Step 6b. 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, fuse holder space required. | |
| n/a | 118415 | 100 | TLS/TPS fuse | | Occupies one position, fuse holder space required. | |

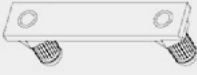
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Step 6c. Choose GMT Fuses with GMT Fuse Module

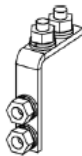
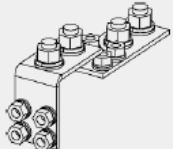
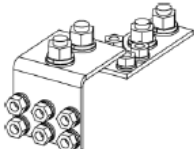



| List Number | Vertiv™ Part Number | Ampere Rating | Description | Qty. | Notes | Pictorial |
|-------------|---------------------|---------------|-------------------------------------|------|---|---|
| n/a | 559737 | – | Fuse module, six GMT fuse positions | | Occupies two bullet positions. Mounts in single row distribution panel system or top row of dual row distribution panel system. |  |
| n/a | 549017 | – | Fuse module, six GMT fuse positions | | Occupies two bullet positions. Mounts in bottom row of dual row distribution panel system. | |
| 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. | |
| 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. | |

* Space required when operating at 65 °C.

Step 6d. Choose Bullet Nose Bypass Bus Bar

| List Number | Vertiv Part Number | Description | Qty. | Notes | Pictorial |
|-------------|--------------------|---------------------------|------|-------|---|
| n/a | 535015 | Bullet nose bypass busbar | | |  |

Step 7. Optional – Choose Adapters & Hardware

| List Number | Vertiv™ Part Number | Number of Poles | Description | Qty. | Notes | Pictorial |
|-------------|---------------------|-----------------|------------------|------|---|---|
| n/a | 559803 | 1 Pole | Lug adapter kit | | Right angle adapter converts (1) load position (1/4-20 on 5/8" centers) to (1) load landing (1/4-20 on 5/8" centers). |  |
| n/a | 559804 | 2 Pole | Lug adapter kit | | Right angle load busbar and straight return busbar for rear wiring egress converts (2) load positions (1/4-20 on 5/8" centers) to (1) landing (3/8-16 on 1" centers). |  |
| n/a | 559805 | 3 Pole | Lug adapter kit | | Right angle load busbar and straight return busbar for rear wiring egress converts (3) load positions (1/4-20 on 5/8" centers) to (1) landing (3/8-16 on 1" centers). |  |
| n/a | 534449 | 2 Pole | Lug adapter kit | | Includes (1) busbar that mounts on the two lug landing positions of a 125 A, 150 A, or 200 A bullet nose circuit breaker, and provides a landing for one standard two-hole lug having 3/8" bolt clearance holes on 1" centers. Also includes (1) busbar that mounts on two landings of the associated ground return bar (if furnished), and provides one landing for a standard two-hole lug having 3/8" bolt clearance holes on 1" centers. All busbar and lug mounting hardware is included. Order (1) part no. 534449 per 125 A, 150 A, and 200 A bullet nose circuit breaker ordered. |  |
| n/a | 514714 | 3 Pole | Lug adapter kit | | Includes (1) busbar that mounts on the three lug landing positions of a 225 A through 300 A bullet nose circuit breaker, and provides one landing for a standard two-hole lug having 3/8" bolt clearance holes on 1" centers. Also includes (1) busbar that mounts on three landings of the associated ground return bar (if furnished), and provides one landing for a standard two-hole lug having 3/8" bolt clearance holes on 1" centers. All busbar and lug mounting hardware is included. Order (1) part no. 514714 per 225 A through 300 A bullet nose circuit breaker ordered. |  |
| n/a | 545412DCP | - | Lug hardware kit | | (4) 1/4-20 nuts, lock washers, and flat washers. |  |

Step 8. Optional – Choose Low Voltage Disconnect

Select either low-voltage battery disconnect (List LB) or load disconnect (List LL) for a single row distribution cabinet. For a dual row cabinet, select either List LB or List LL or select both.

| List Number | Vertiv Part Number | Description | Qty. | Notes |
|-------------|--------------------|--------------------------------|------|---|
| List LB | 582137100LB | Low voltage battery disconnect | | Maximum of one in a system. |
| List LL | 582137100LL | Low voltage load disconnect | | Maximum of one in a system. On dual row cabinet contactor only disconnects bottom row. |

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Step 9. Choose 19" W or 23" W Rectifier/Converter Module Shelves



Select one List 30 for each module shelf chosen except when 58870530036 is chosen. Select one shelf with a controller slot and then select expansion shelves. For conduit input order a List 40, 45 or 46 and the hard-wired module shelves.



19" W NetSure 5100 Shelf



23" W NetSure 5100 Shelf

| List Number | Vertiv™ Part Number | Description | Qty. | Rack Space | Notes | Pictorial |
|--------------------------------------|---------------------|---|------|------------|---|---|
| List 30 | 58213710030 | Interface components for 1RU module, shelf | n/a | | Order one for each module shelf that is ordered other than when the 58870530036 shelf is chosen. | |
| List 40 | 58213710040 | 19" W AC/Solar input termination panel | n/a | | Order for individual solar or AC input in conduit. |  |
| List 45 | 58213710045 | 23" W AC/Solar input termination panel | n/a | | Order for individual solar or AC input in conduit. | |
| List 46 | 58213710046 | 23" W AC input termination panel | n/a | | Order for AC input in conduit. Each AC feed picks up two rectifiers. For use with up to (3) shelves. |  |
| Module Shelves e/w Controller | | | | | | |
| n/a | 58870530011 | 23" W shelf e/w controller slot. Holds (5) rectifier or solar converter modules. Hard-wire AC. | 1 | RU | For use with AC input that will be in conduit. Requires List 45 or 46. | |
| n/a | 58870530015 | 23" W shelf e/w controller slot. Holds (5) rectifier or solar converter modules. Molex cord connectors. | 1 | RU | For use with Molex AC cords.* | |
| n/a | 58870530031 | 19" W shelf e/w controller slot. Holds (4) rectifier or solar converter modules. Hard-Wire AC. | 1 | RU | For use with AC input that will be in conduit. Requires List 40. | |
| n/a | 58870530035 | 19" W shelf e/w controller slot. Holds (4) rectifier or solar converter modules. Molex cord connectors. | 1 | RU | For use with Molex AC cords.* | |
| Bulk Output Shelf | | | | | | |
| n/a | 58870530036 | 19" bulk output stand-alone shelf e/w controller slot. Holds (4) rectifier modules. AC input consists of molex cord connectors. Shelf comes with output bus bar lug landing points for customer lugs. | 1 | RU | For use with Molex AC cords*. No distribution required. System requires, controller, rectifiers, AC cords. | |
| Module Shelves for Expansion | | | | | | |
| n/a | 58870530021 | 23" W shelf. Holds (6) rectifiers or (3) rectifier and (3) solar converter modules. Hard-wire AC. | 1 | RU | For use with AC input that will be in conduit. Three left most slots can hold solar converter modules. Requires List 45 or 46. | |
| n/a | 58870530025 | 23" W shelf. Holds (6) rectifiers or (3) rectifier and (3) solar converter modules. Molex cord connectors. | 1 | RU | For use with Molex AC cords. Three left most slots can hold solar converter modules.* | |
| n/a | 58870530041 | 19" W shelf. Holds (5) rectifiers or (2) rectifiers and (3) solar converter modules. Hard-wire AC. | 1 | RU | For use with AC input that will be in conduit. Three left most slots can hold solar converter modules. Requires List 40. | |
| n/a | 58870530045 | 19" W shelf. Holds (5) rectifiers or (2) rectifiers and (3) solar converter modules. Molex cord connectors. | 1 | RU | For use with Molex AC cords. Three left most slots can hold solar converter modules.* | |
| n/a | 58870530001 | 23" W shelf with (6) positions for rectifiers, solar converters and -48V to -58V or -48V to +24V converter modules. Hard-wire AC. | 1 | RU | For use with AC input that will be in conduit. Left three slots set up for solar converters. Right three slots set up for -48V to -58V converter modules or -48V to +24V converter modules. Requires List 45 or 46. | |
| n/a | 58870530005 | 23" W shelf with (6) positions for rectifiers, solar converters and -48V to -58V or -48V to +24V converter modules. -48V to -58V or Molex cord connectors. | 1 | RU | For use with Molex AC cords. Left three slots set up for solar converters. Right three slots set up for -48V to -58V converter modules or -48V to +24V converter modules.* | |

*When using molex cords and solar converters only one solar converter can be powered per AC Cord.

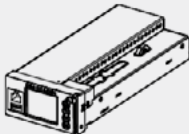
Step 10. Optional – Choose AC Cords

Select AC cords for molex AC input module shelves.

| List Number | Vertiv™ Part Number | Description | Qty. | Pictorial |
|-------------|---------------------|---|------|---|
| n/a | 535232 | 30" long, 8 AWG, input cable assembly | |  |
| n/a | 547898 | 6' long, 8 AWG, input cable assembly | |  |
| n/a | 553202 | 12' long, 8 AWG, AC input cable assembly | |  |
| n/a | 540946 | 14' long, 8/3 AWG, AC input line cord, L6-30P | |  |
| n/a | 545252DCP | 14' long, 8/3 AWG, AC input line cord, L5-30P | |  |
| n/a | 545616DCP | 6' long, 8 AWG, AC input line cord, L6-30P | |  |

Step 11. Choose Controller

Select one, quantity of one.

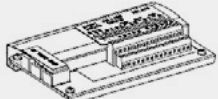




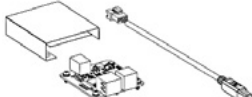



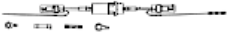

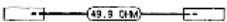
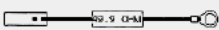
| List Number | Vertiv Part Number | Description | Qty. | Notes | Pictorial |
|-------------|--------------------|----------------|------|---|---|
| n/a | 1M830BNA | NCU controller | | Standard or special firmware configuration can be assigned. Distribution cabinet comes equipped with IB2 interface board which provides (8) programmable and mappable output relays, (8) programmable binary inputs and (2) temperature inputs. |  |

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Step 12. Optional – Choose Controller Interfaces

Select if desired.

Note: Items below cannot be used with 58870530036 bulk output shelf.

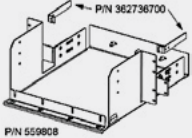
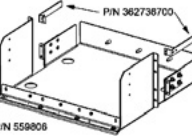
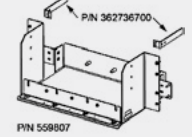
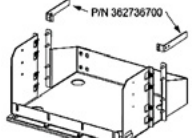

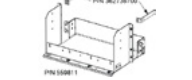
| List Number | Vertiv™ Part Number | Description | Qty. | Notes | Pictorial |
|-------------|---------------------|--|------|--|---|
| List 70 | 58213710070 | EIB, extended interface board | | Maximum quantity of one. Provides (5) relay outputs, (2) temperature inputs, (8) battery mid-point monitoring inputs and (3) shunt inputs. Mounts internal to the 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, 3.3m, 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 | 552992 | Temperature probe, 10.3m, includes 0.3m 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 | 559741 | NCU controller second Ethernet port kit | | Provides dual Ethernet feature - one static and one dynamic |  |
| n/a | 555877 | Critical LED Kit | | Illuminates for a critical alarm. |  |
| n/a | 514308 | Relay Output Cable Assembly | | System Side | |
| n/a | 541309 | Relay Output Cable Assembly | | Customer Side | |
| n/a | 541310 | Digital Input Cable Assembly | | System Side | |
| n/a | 541311 | Digital Input Cable Assembly | | Customer Side | |
| 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 digital inputs on IB2 Interface board and 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 digital inputs on IB2 Interface board and 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 digital inputs on IB2 Interface board and battery midpoint/block voltage inputs on the EIB extended interface board. |  |
| n/a | 424227900 | In-line 49.9 ohm resistor pig-tail 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 pig-tail kit with 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 pig-tail 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 13. Optional – Choose Battery Tray(s) & Battery Tray Accessories

Select one List 93 or List 94 and up to (4) trays as space and restrictions apply.

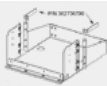


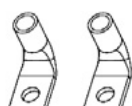



Select battery disconnect and lugs if required.

Note: Not to be ordered with 58870530036 bulk output shelf.

| List Number | Vertiv Part Number | Amp Rating | Description | Qty. | Rack Space | Notes | Pictorial |
|-------------|--------------------|------------|---|------|--------------------|--|---|
| List 93 | 58213710093 | - | Battery tray mounting kit | - | - | | |
| n/a | 559808 | - | Battery tray for front terminal batteries, max battery size 11.3" x 4.3" x 21.7" (H x W x L) | | 6 RU, 7 RU or 8 RU | For 23" W mounting. |  |
| n/a | 559806 | - | Battery tray for front terminal batteries, max battery size 12.8" x 4.96" x 22.51" (H x W x L) Base of tray is 21.19" long | | 6 RU, 7 RU or 8 RU | For 23" W mounting. |  |
| n/a | 559807 | - | Battery tray for front terminal batteries, max battery size 11.60" x 4.20" x 11.3" (H x W x L) | | 6 RU, 7 RU or 8 RU | For 23" W mounting. Not to be used in relay rack 562353. |  |
| n/a | 10012262 | - | Battery tray for front terminal batteries, max battery size 12.74" x 4.97" x 24.30" (H x W x L) | | 8RU | For 23"W mounting | |
| List 94 | 58213710094 | - | Battery tray mounting kit | - | - | | |
| n/a | 559809 | - | Battery tray for front terminal batteries, max battery size 11.3" x 4.25" x 15.59" (H x W x L) | | 7 RU or 8 RU | For 19" W mounting. |  |
| n/a | 559810 | - | Battery tray for front terminal batteries, max battery size 9.4" X 4.33" X 20.12" (H x W x L) | | 7 RU | For 19" W mounting. |  |
| n/a | 559811 | - | Battery tray for front terminal batteries, max battery size 11.6" X 4.2" X 11.3" (H x W x L) | | 6 RU, 7 RU or 8 RU | For 19" W mounting. Not to be used in relay rack 563922. |  |

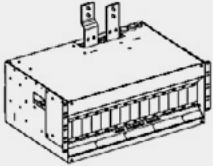
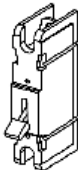
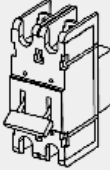
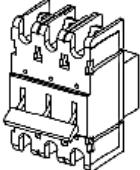
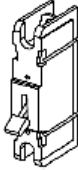
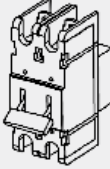
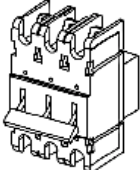
NetSure™ 5100 Ordering Guide

Step 13. (continued)

| List Number | Vertiv™ Part Number | Amp Rating | Description | Qty. | Rack Space | Notes | Pictorial |
|-------------|---------------------|------------|--|------|------------|--|---|
| n/a | 559812 | - | Battery tray for front terminal batteries, max battery size 12.4" X 4.3" X 22.1" (H x W x L) | | 8 RU | For 19" W mounting. Not to be used in relay rack 563922. |  |
| n/a | 559814 | - | Single pole battery disconnect box, left side of rack | | - | |  |
| n/a | 559813 | - | Single pole battery disconnect box, right side of rack | | - | |  |
| n/a | 559816 | - | Two pole battery disconnect box, left side of rack | | - | |  |
| n/a | 559815 | - | Two pole battery disconnect box, right side of rack | | - | |  |
| n/a | 256694300 | 50 | Electrical/mechanical trip breaker | | - | | |
| n/a | 256694700 | 60 | Electrical/mechanical trip breaker | | - | | |
| n/a | 256695100 | 70 | Electrical/mechanical trip breaker | | - | Requires battery disconnect box 559814 or 559813. | |
| n/a | 256695500 | 75 | Electrical/mechanical trip breaker | | - | | |
| n/a | 256695900 | 100 | Electrical/mechanical trip breaker | | - | | |
| n/a | 100765 | 125 | Electrical/mechanical trip breaker | | - | | |
| n/a | 100763 | 150 | Electrical/mechanical trip breaker | | - | Requires battery disconnect box 559816 or 559815. | |
| n/a | 121810 | 200 | Electrical/mechanical trip breaker | | - | | |
| n/a | 528234 | - | 2 AWG battery lug kit | | - | 90 degree. |  |
| n/a | 528235 | - | 1/0 AWG battery lug kit | | - | 90 degree. |  |
| n/a | 528236 | - | 2 AWG long tongue battery lug kit | | - | 90 degree. |  |
| n/a | 528237 | - | 1/0 AWG long tongue battery lug kit | | - | 90 degree. |  |

Step 14. Optional – Choose Hybrid Panel & Hybrid Breakers



Select one hybrid panel and up to (5) breakers. Four of the breakers can be three pole and one can be up to two poles.

| List Number | Vertiv™ Part Number | Description | Qty. | Rack Space | Notes | Pictorial |
|--|---------------------|----------------------------------|------|------------|---|---|
| List 60 | 58213710060 | 23" W Hybrid input breaker panel | | 5 RU | Requires 23" W relay rack. Not to be ordered stand-alone or with the 58870530036 bulk output shelf. |  |
| Electrical/Mechanical Trip Breakers | | | | | | |
| n/a | 123580 | 100A E/M breaker e/w shunt | - | | Single pole breaker, 25mV shunt. |  |
| n/a | 123631 | 125A E/M breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 123632 | 150A E/M breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 123633 | 175A E/M breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 123634 | 200A E/M breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 123635 | 225A E/M breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 123636 | 250A E/M breaker e/w shunt | - | | Single pole breaker, 25mV shunt. |  |
| n/a | 550250DCP | 300A E/M breaker e/w shunt | - | | Two pole breaker, 25mV shunt. | |
| n/a | 550251DCP | 400A E/M breaker e/w shunt | - | | Two Pole breaker, 25mV shunt. | |
| n/a | 550252DCP | 600A E/M breaker e/w shunt | - | | Three pole breaker, 25 mV shunt. |  |
| Electrical Trip Breakers | | | | | | |
| n/a | 516184 | 100A E breaker e/w shunt | - | | Single pole breaker, 25mV shunt. |  |
| n/a | 516187 | 125A E breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 516185 | 150A E breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 516186 | 175A E breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 516188 | 200A E breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 516189 | 225A E breaker e/w shunt | - | | Single pole breaker, 25mV shunt. | |
| n/a | 516190 | 250A E breaker e/w shunt | - | | Single pole breaker, 25mV shunt. |  |
| n/a | 550253 | 300A E breaker e/w shunt | - | | Two pole breaker, 25mV shunt. | |
| n/a | 550254 | 400A E breaker e/w shunt | - | | Two Pole breaker, 25 mV shunt. | |
| n/a | 550255 | 600A E breaker e/w shunt | - | | Three pole breaker, 25mV shunt. |  |









Step 15. Optional – Choose Solar Panel Disconnect Panel & Breakers

Select one or two solar panels and up to (16) breakers.





Note: Not to be used with the 58870530036 bulk output shelf.

| List Number | Vertiv™ Part Number | Description | Qty. | Rack Space | Notes | Pictorial |
|-------------|---------------------|---------------------------------|------|------------|---|---|
| List 61 | 58213710061 | 23" W solar input breaker panel | | 5 RU | Mounts below rectifier shelves or hybrid panel. |  |
| n/a | BMV2300074/1 | 20A solar panel breaker | | 5 RU | (8) breakers per panel. |  |

Step 16. Optional Inverter System - Choose System







| List Number | Vertiv Part Number | Description | Qty. | Rack Space | Notes | Pictorial |
|-------------|--------------------|--|------|------------|---|---|
| List 50 | 58213710050 | 120VAC Inverter system, 5kVA e/w 1x Bulk output | | 19"W x 2RU | Cannot be used with a List 27 or List 60 or List 61 or List KG or List GB. Uses DC breakers in the distribution cabinet for powering the inverters. |  |
| List 51 | 58213710051 | 120VAC Inverter system, 5kVA e/w 4x NEMA Receptacle outputs | | 19"W x 2RU | Cannot be used with a List 27 or List 60 or List 61 or List KG or List GB. Uses DC breakers in the distribution cabinet for powering the inverters. |  |
| List 52 | 58213710052 | 120VAC Inverter system, 6kVA e/w 1x Bulk output | | 23"W x 2RU | Cannot be used with a List 27 or List 60 or List 61 or List KG or List GB. Uses DC breakers in the distribution cabinet for powering the inverters. |  |
| List 53 | 58213710053 | 120VAC Inverter system, 5.76kVA e/w 4x NEMA Receptacle outputs | | 23"W x 2RU | Cannot be used with a List 27 or List 60 or List 61 or List KG or List GB. Uses DC breakers in the distribution cabinet for powering the inverters. |  |
| List 54 | 58213710054 | 120VAC Inverter system, 10kVA e/w 2x Bulk outputs | | 19"W x 4RU | Cannot be used with a List 27 or List 60 or List 61 or List KG or List GB. Uses DC breakers in the distribution cabinet for powering the inverters. |  |
| List 55 | 58213710055 | 120VAC Inverter system, 10kVA e/w 8x NEMA Receptacle outputs | | 19"W x 4RU | Cannot be used with a List 27 or List 60 or List 61 or List KG or List GB. Uses DC breakers in the distribution cabinet for powering the inverters. |  |
| List 56 | 58213710056 | 120VAC Inverter system, 12kVA e/w 2x Bulk outputs | | 23"W x 4RU | Cannot be used with a List 27 or List 60 or List 61 or List KG or List GB. Uses DC breakers in the distribution cabinet for powering the inverters. |  |
| List 57 | 58213710057 | 120VAC Inverter system, 11.5kVA e/w 8x NEMA Receptacle outputs | | 23"W x 4RU | Cannot be used with a List 27 or List 60 or List 61 or List KG or List GB. Uses DC breakers in the distribution cabinet for powering the inverters. |  |

Step 16. Optional – Choose Accessories

| List Number | Vertiv Part Number | Description | Qty. | Rack Space | Notes | Pictorial |
|-------------|--------------------|---|------|------------|--|---|
| n/a | 559801 | Earthquake Kit, 19" Flush Mounting for Data Cabinet | | | |  |
| List 33 | 58213710033 | 23" W field expansion shelf kit for rectifiers, solar converters and -48V to +24V DC converters | | 1 RU | Molex AC input. Not to be used with the 58870530036 bulk output shelf. |  |
| List 34 | 58213710034 | 23" W field expansion shelf kit for rectifiers and solar converters | | 1 RU | Molex AC input. Not to be used with the 58870530036 bulk output shelf. |  |
| List 36 | 58213710036 | 19" W field expansion shelf kit for rectifiers and solar converters | | 1 RU | Molex AC input. Not to be used with the 58870530036 bulk output shelf. |  |
| n/a | 562050 | 19" W AC cord bracket | | N/A | Mounts on rear of relay rack. | |
| n/a | 563456 | 23" W AC cord bracket | | N/A | Mounts on rear of relay rack. | |

Step 17. Order Rectifiers and Converter Modules

See user and instruction manuals for de-rating information due to temperature.

| List Number | Vertiv™ Part Number | Description | Qty. | Rack Space | Notes | Pictorial |
|-------------|---------------------|--|------|------------|--|---|
| n/a | 1R482000E3 | High-efficiency rectifier R48-2000e3, 48 VDC, 2000 watts | | 1 RU | Provides 41.7 amps at 48 VDC. |  |
| n/a | 1C48582000P3 | Converter, model C48/58-2000P3, -48 VDC to -58 VDC, 2000 watts peak, 1600 watts average, high efficiency | | | |  |
| n/a | 1C48241500 | High-efficiency converter C48/24-1500, -48 to +24 VDC, 1500 watts | | 1 RU | Provides 62.5 amps at 24 VDC . |  |
| n/a | 1S482000E3 | High-efficiency solar converter S48-2000e3, 48 VDC, 2000 watts | | 1 RU | Provides 41.7 amps at 48 VDC . |  |
| n/a | SXA1100035/1 | Blank cover for 1 RU rectifier, converter or solar converter | | 1 RU | Optional cover for empty 1RU rectifier, converter or solar converter position. |  |
| n/a | 1I1201000 | 120 VAC, 1kVA/1kW Inverter Module | | 1RU | |  |

Comments

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

Contact your local sales representative with questions or call 1-800-800-1280 for support.

