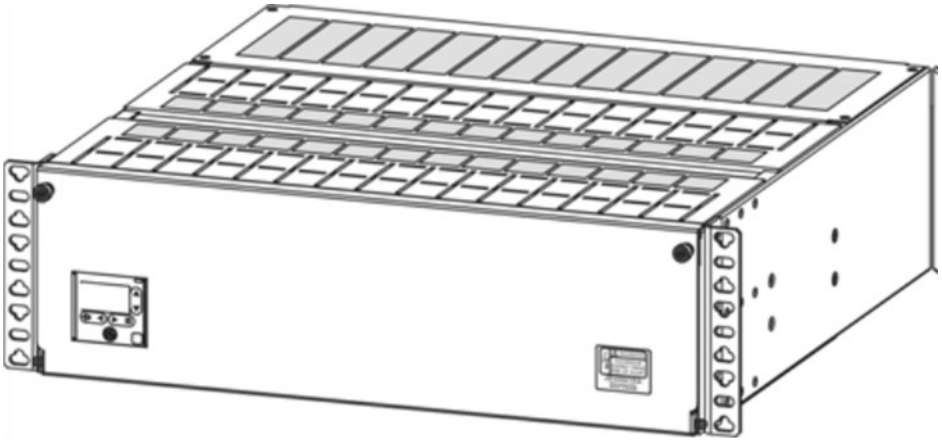
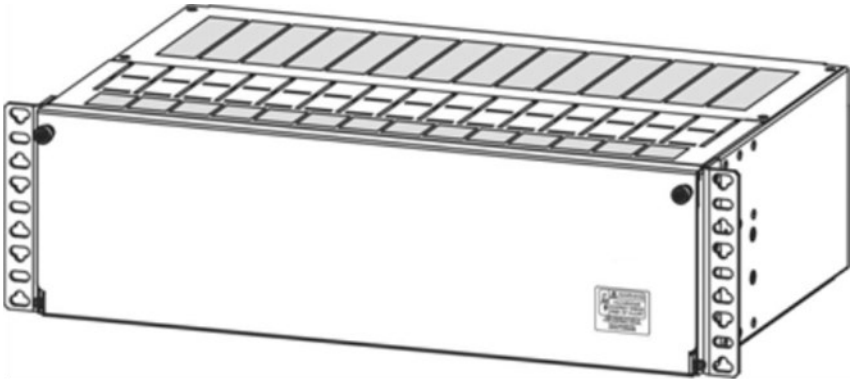
3U DIN Distribution Shelf - 19 in Rack Mount

J2012001 - multiple models - See SPS, NE, or CP Brochure for details of models



17” deep Shelf (NE & CP compatible)



11” deep Shelf (SPS compatible)

The distribution shelf may be installed as a component of a power systems or as a stand-alone remote distribution (cabled input power). Some models include battery connections. Some models include battery connections and battery contactors.

Controller: All power systems have a controller. It may be located in the primary rectifier shelf or in the distribution shelf. If the power system has a primary rectifier shelf (with controller), install the distribution shelf immediately above it.

Refer to SPS, Infinity S (NE S), or CPL Brochure for details, circuit breakers, and accessories.

Document: 850037453

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Safety Statements

- Do not install this equipment over combustible surfaces.
- Rules and Regulations - Follow all national and local rules and regulations when making field connections.
- Compression Connectors
  - U. S. or Canada installations - use Listed/Certified compression connectors to terminate Listed/Certified field-wire conductors.
  - All installations - apply the appropriate connector to the correct size conductor as specified by the connector manufacturer, using only the connector manufacturer's recommended or approved tooling for that connector.
- Electrical Connection Securing: Torque to the values specified on labels or in the product documentation.
- Cable Dress - dress to avoid damage to the conductors and undue stress on the connectors.
- Circuit Breakers and Fuses
  - Use only those specified in the equipment ordering guide.
  - Size as required by the National Electric Code (NEC) and/or local codes.

    Safety Tested Limits - Refer to the equipment ratings to assure current does not exceed.

    Continuous Load (List 1) - 60% of protector rating.

    Maximum Load (List 2 - typically end of discharge) - 80% of protector rating.
- Field-wired Conductors - Follow all National Electric Code (NEC) and local rules and regulations.
  - Insulation rating: 90°C minimum; 105°C (minimum) if internal to enclosed equipment cabinets.
  - Size AC field-wired conductors with 75°C ampacity (NEC) equal to or greater than their panel board circuit breaker rating.
- AC and DC input disconnect/protection - Provide accessible devices to remove input power in an emergency.
- Alarm Signals - Provide external current limiting protection. Rating 60V, 0.5A unless otherwise noted.
- Grounding - Connect the equipment chassis directly to ground. In enclosed equipment cabinets connect to the cabinet AC service ground bus. In huts, vaults, and central offices connect to the system bonding network.
- Do not place combustible materials directly above or below equipment.
- This equipment is not suitable for use in locations where children are likely to be present.
- Installation in restricted access areas only.

Note: Proper grounding of AC supply receptacles must be verified by qualified personnel.

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Énoncés de sécurité

- N'installez pas cet équipement sur des surfaces combustibles.
- Règles et règlements – Suivez toutes les règles et réglementations nationales et locales lorsque vous établissez des connexions sur le terrain.
- Connecteurs de compression
  - Installations aux États-Unis ou au Canada – utilisez des connecteurs de compression répertoriés/certifiés pour terminer les conducteurs de fil de champ répertoriés/certifiés.
  - Toutes les installations – appliquez le connecteur approprié au conducteur de taille correcte spécifié par le fabricant du connecteur, en utilisant uniquement l'outillage recommandé ou approuvé par le fabricant du connecteur pour ce connecteur.
- Sécurisation de la connexion électrique : Couple aux valeurs spécifiées sur les étiquettes ou dans la documentation du produit.
- Robe de câble – habillez-vous pour éviter d'endommager les conducteurs et de solliciter inutilement les connecteurs.
- Disjoncteurs et fusibles
  - Utilisez uniquement ceux spécifiés dans le guide de commande d'équipement.
  - Taille requise par le Code national de l'électricité (NEC) et/ou les codes locaux.

    Limites des tests de sécurité – Reportez-vous aux cotes de l'équipement pour vous assurer que le courant ne dépasse pas :

    Charge continue (Liste 1) - 60 % de la valeur nominale du protecteur.

    Charge maximale (Liste 2 – généralement fin de décharge) – 80 % de la valeur nominale du protecteur.
- Conducteurs câblés sur le terrain – Respectez toutes les règles et réglementations nationales du Code national de l'électricité (NEC) et locales.
  - Indice d'isolation : 90°C minimum ; 105 °C (minimum) si interne aux armoires d'équipement fermées.
  - Taille des conducteurs câblés sur le terrain AC avec une ampacité de 75°C (NEC) égale ou supérieure à leur circuit nominal de carte de panneau.
- Débranchement/protection des entrées CA et CC – Fournissez des dispositifs accessibles pour couper l'alimentation d'entrée en cas d'urgence.
- Signaux d'alarme - Fournit une protection externe de limitation de courant. Notation 60 V, 0,5 A, sauf indication contraire.
- Mise à la terre – Connectez le châssis de l'équipement directement à la terre. Dans les armoires d'équipement fermées, connectez-vous au bus de masse de service CA de l'armoire. Dans les huttes, les chambres fortes et les bureaux centraux se connectent au réseau de liaison du système.
- Ne placez pas de matières combustibles directement au-dessus ou au-dessous de l'équipement.
- Cet équipement ne convient pas à une utilisation dans des endroits où des enfants sont susceptibles d'être présents
- Installation dans des zones à accès restreint uniquement

Remarque: La mise à la terre adéquate des prises d'alimentation en courant alternatif doit être vérifiée par du personnel qualifié.

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Precautions

- Install, service, and operate equipment only by professional, skilled and qualified personnel who have the necessary knowledge and practical experience with electrical equipment and who understand the hazards that can arise when working on this type of equipment.
- Disconnect batteries from outputs and/or follow safety procedures while working on equipment. Batteries may be connected in parallel with the output of the rectifiers. Turning off the rectifiers will not necessarily remove power from the bus.
- Do not disconnect permanent bonding connections unless all power inputs are disconnected.
- Verify that equipment is properly safety earth grounded before connecting power. High leakage currents may be possible.
- Exercise care and follow all safety warnings and practices when servicing this equipment. Hazardous energy and voltages are present in the unit and on the interface cables that can shock or cause serious injury. When equipped with ringer modules, hazardous voltages will be present on the ringer output connectors.
- Use the following precautions in addition to proper job training and safety procedures:
    - Use only properly insulated tools.
    - Remove all metallic objects (key chains, glasses, rings, watches, or other jewelry).
    - Follow Lock Out Tag Out (LOTO) procedures: customer specified, site specific, or general as appropriate. Disconnect all power input before servicing the equipment. Check for multiple power inputs.
    - Wear safety glasses.
    - Follow Personal Protective Equipment requirements: customer specified, site specific, or general as appropriate.
    - Test circuits before touching.
    - Be aware of potential hazards before servicing equipment.
    - Identify exposed hazardous electrical potentials on connectors, wiring, etc.
    - Avoid contacting circuits when removing or replacing covers;.
    - Use a personal ESD strap when accessing or removing electronic components.
- Personnel with electronic medical devices need to be aware that proximity to DC power and distribution systems, including batteries and cables, typically found in telecommunications utility rooms, can affect medical electronic devices, such as pacemakers. Effects decrease with distance.

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Précautions

- Installer, entretenir et utiliser l'équipement uniquement par du personnel professionnel, qualifié et qualifié qui possède les connaissances et l'expérience pratique nécessaires avec l'équipement électrique et qui comprend les dangers qui peuvent survenir lors du travail sur ce type d'équipement.
- Débranchez les batteries des sorties et/ou suivez les procédures de sécurité lorsque vous travaillez sur l'équipement. Les batteries peuvent être connectées en parallèle avec la sortie des redresseurs. La mise hors tension des redresseurs ne coupera pas nécessairement l'alimentation du bus.
- Ne débranchez pas les connexions de liaison permanentes à moins que toutes les entrées d'alimentation ne soient déconnectées.
- Vérifiez que l'équipement est correctement mis à la terre avant de brancher l'alimentation. Des courants de fuite élevés peuvent être possibles.
- Faites preuve de prudence et suivez tous les avertissements et pratiques de sécurité lors de l'entretien de cet équipement. De l'énergie et des tensions dangereuses sont présentes dans l'appareil et sur les câbles d'interface qui peuvent choquer ou causer des blessures graves. Lorsqu'il est équipé d'un module de sonnerie, une tension dangereuse sera présente sur les connecteurs de sortie de sonnerie.
- Prenez les précautions suivantes en plus de la formation professionnelle appropriée et des procédures de sécurité :
    - N'utilisez que des outils correctement isolés.
    - Enlevez tous les objets métalliques (porte-clés, lunettes, bagues, montres ou autres bijoux).
    - Suivez les procédures LOTO (Lock Out Tag Out) : spécifiées par le client, spécifiques au site ou générales, selon le cas. Débranchez toute l'alimentation avant d'entretenir l'équipement. Vérifiez s'il y a plusieurs entrées d'alimentation.
    - Portez des lunettes de sécurité.
    - Respectez les exigences relatives à l'équipement de protection individuelle : spécifiées par le client, spécifiques au site ou générales, selon le cas.
    - Testez les circuits avant de les toucher.
    - Soyez conscient des dangers potentiels avant d'entretenir l'équipement.
    - Identifier les potentiels électriques dangereux exposés sur les connecteurs, le câblage, etc.
    - Éviter de contacter les circuits lors du retrait ou du remplacement des couvercles;.
    - Utilisez une sangle ESD personnelle lorsque vous accédez à des composants électroniques ou que vous les retirez.
- Le personnel qui possède des appareils médicaux électroniques doit savoir que la proximité des systèmes d'alimentation et de distribution en courant continu, y compris les batteries et les câbles, que l'on trouve généralement dans les salles de services de télécommunications, peut avoir une incidence sur les appareils électroniques médicaux, tels que les stimulateurs cardiaques. Les effets diminuent avec la distance.

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Ratings table

J2012001 List	Ordering Code	Batt CB Pos	Pri Ld CB Pos	Non-Pri Ld CB Pos	AC CB Pos	LVBD	LVLD	AC Input	Output Volt	Chrg	Dischrg
L011	150030916	8	0	20					42~58Vdc	150A	150A
L011B	150030918	8	0	20		Yes			42~58Vdc	150A	150A
L011L	150038051	8	8	12			Yes		42~58Vdc	150A	150A
L011BL	150038052	8	8	12		Yes	Yes		42~58Vdc	150A	150A
L111	150047507	0	0	30					42~58Vdc	150A	150A
L014E	150045873	4	0	24					42~58Vdc	250A	250A
L014BE	150043598	4	0	24		Yes			42~58Vdc	250A	250A
L014LE	150045874	4	4	20			Yes		42~58Vdc	250A	250A
L014BLE	150045875	4	4	20		Yes	Yes		42~58Vdc	250A	250A
L016E	150043764	8	0	20					42~58Vdc	250A	250A
L016BE	150043765	8	0	20		Yes			42~58Vdc	250A	250A
L016LE	150043766	8	8	12			Yes		42~58Vdc	250A	250A
L016BLE	150043767	8	8	12		Yes	Yes		42~58Vdc	250A	250A
L017E	150030914	8	0	20					42~58Vdc	320A	400A
L017BE	150030915	8	0	20		Yes			42~58Vdc	240A	300A
L017LE	150043768	8	8	12			Yes		42~58Vdc	240A	300A
L017BLE	150043769	8	8	12		Yes	Yes		42~58Vdc	240A	300A
L017P	150043770	8	0	20					42~58Vdc	320A	400A
L017BP	150043771	8	0	20		Yes			42~58Vdc	240A	300A
L017LP	150043772	8	8	12			Yes		42~58Vdc	240A	300A
L017BLP	150043599	8	8	12		Yes	Yes		42~58Vdc	240A	300A
L018BP	1600251197A	8	0	15	6	Yes		380Vac 3W+N+PE, 50/60Hz, 40A	42~58Vdc	320A	320A
L018BLP	150048656	8	6	9	6	Yes	Yes		42~58Vdc	320A	320A
L019BP	150048771	8	0	15	3	Yes		380Vac 3W+N+PE, 50/60Hz, 20A	42~58Vdc	225A*	225A*
L019BLP	1600197217A	8	6	9	3	Yes	Yes		42~58Vdc	225A*	225A*
L022BLP	7000482082A	2	24	5	1	Yes	Yes	380Vac 3W+N+PE, 50/60Hz, 63A	42~58Vdc	320A	320A
L116E	150049136	8	0	20					+42~58Vdc	250A	250A
L216E	150049135	8	0	20					+22~29Vdc	250A	250A

Notes:

- All J2012001 List have a 10kA interrupt rating.
- All charge and discharge ratings are at 45°C ambient except L019BP and L019BLP which are at 65°C ambient. For ratings beyond the listed ambient temperature, contact OmniOn Power

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Tools required:

- Torque wrench (0-40Nm)
- Screw Drivers - Phillips and flat
- Wire cutters and strippers
- Cable crimpers
- Sockets - metric and inch

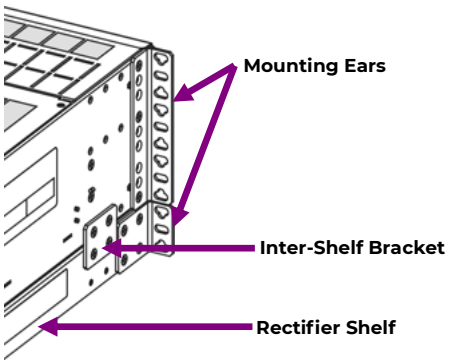
Step 1 - Mount Shelf

Prepare the shelf for mounting to the frame.

1. Reposition mounting ears as required - 3 screws each.
   Torque to 2.8Nm (25 in-lb) - Phillips screwdriver.
2. Position the shelf immediately above the rectifier shelf with controller (if present).
3. Install Inter-Shelf brackets between adjacent shelves (optional).
   Torque to 2.8Nm (25 in-lb) - Phillips screwdriver.

Mount the shelf to the frame.

1. Attach shelf to the frame using a minimum of four screws (two on each side) - 12- 24 (provided).
   Torque to 4Nm (35 in-lb) - 5/16" (8mm) socket.



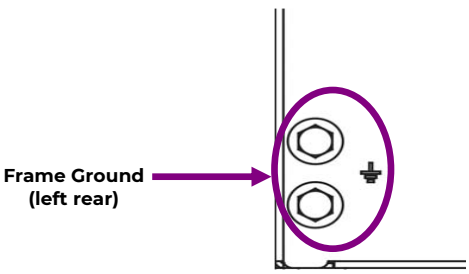
Step 2 - Ground Chassis

Note:

1 Lug landings are M5 on 5/8" (16mm) centers (lug not provided).

2 6mm^2 (10AWG) recommended.

3 Some applications may rely on frame mounting screws for shelf ground omitting the shelf ground cable.
Torque to 4Nm (35 in-lb) - 8mm (8mm) socket.

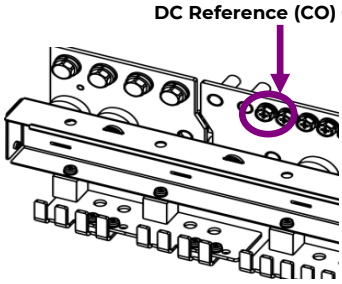


Step 3 - Connect System DC Reference (CO) Ground

Make one connection to a power system (SPS, NE, CPL, etc.). No connection to a stand-alone, remote distribution shelf. Connections are to the left-most position on the Load Return bus - M6 lug (not provided).

10mm^2 recommended.

Torque to 4.0 Nm (35 in-lb) - 10 mm socket.



Step 4 - Connect Shelf DC Input

Connections are on the rear under covers.

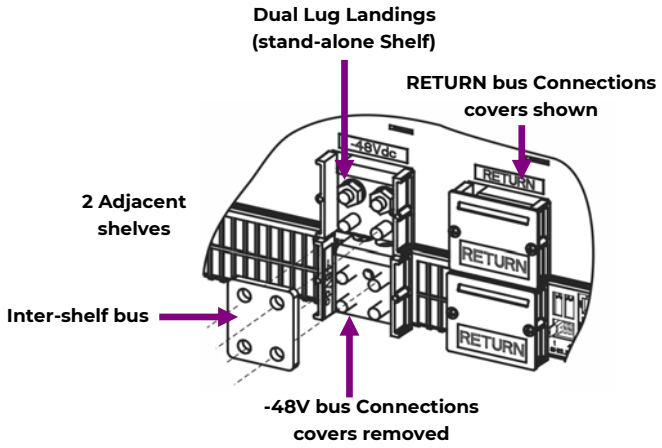
Bus Connection - to an adjacent rectifier shelf

Install inter-shelf buses joining -48V and RETURN bus connections of all adjacent shelves.

Cable Connection - Stand-alone Shelf

CAUTION: Verify battery voltage and polarity with a voltmeter before proceeding.

Lug Landings - 2 x 1/4" on 5/8" center, 0.7" (18mm) max. tongue width. Connect cables with suitable lugs to -48V & RETURN. Torque to 4Nm (35in-lb) - 8mm (8mm)socket.

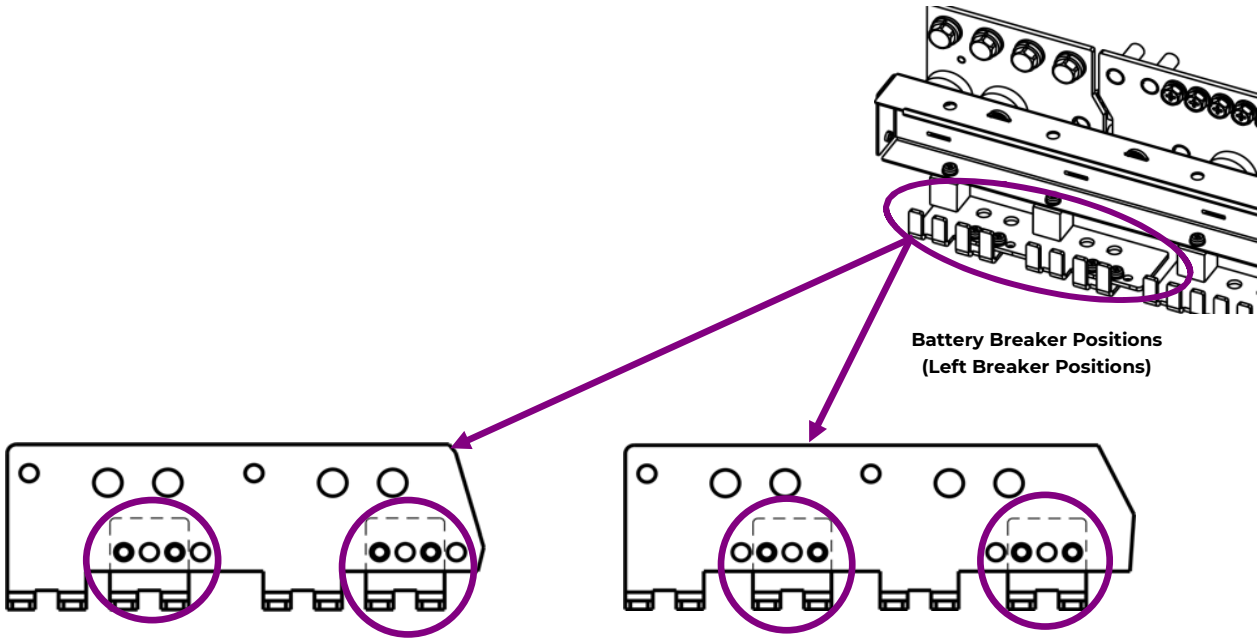


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Step 5 - Reposition Battery Breaker Bus Bars

Skip if battery breakers are installed or batteries are not present.
Battery breaker positions are on the left end of the DIN rail.
Battery breaker bus bars can be positioned for two 3 or 4 pole breakers or for four 1 or 2 pole breakers.

1. Verify that Battery Breaker Bus Bars are properly positioned for the breakers to be installed.
2. Reposition both Battery Breaker Bus Bars to positions for the breakers to be installed.
   a. Remove screws (2) securing each Battery Breaker Bus Bar to the main bus bar - #2 Phillips.
   b. Position each Battery Breaker Bus Bars as required.
      Secure with screws. Torque to 2 Nm (18 in-lb) - #2 Phillips.



Battery Breaker Bus Bars - top view

Step 6 - Connect Batteries - Skip if not present

Battery breaker positions are on the left end of the DIN rail.
Batteries connect to Battery Breakers - light gray
Battery Returns connect to the Battery Return bus behind the breakers.
Use lugs suitable to lug landings (lugs not provided).

A. Install Battery Breaker Kits - Skip if battery breakers are installed or batteries are not present

1. Connect alarm wire to battery breaker (wires provided).
   Connect Fastons to breaker terminals.
   Terminal 11 - Red
   Terminal 12 - Black

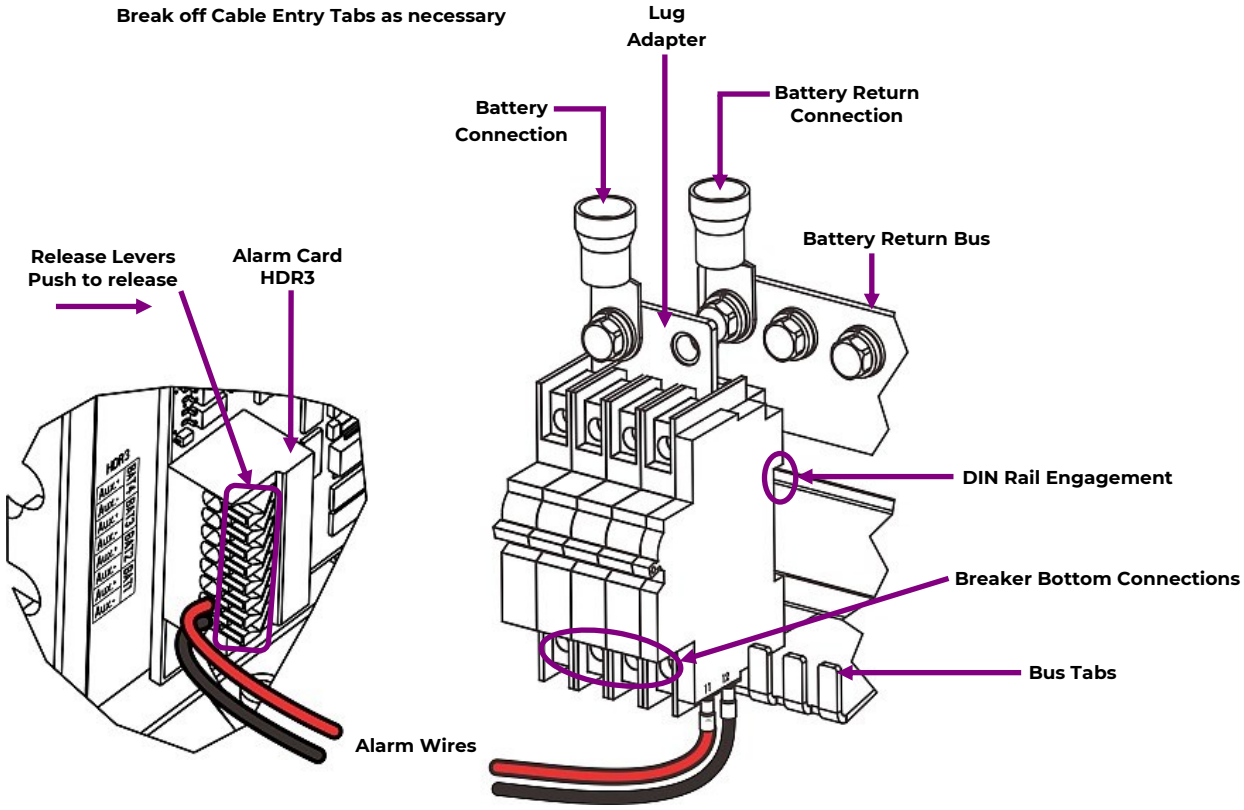
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A. Install Battery Breaker Kits (Continued) - Skip if battery breakers are installed or batteries are not present

2. Mount breaker to DIN rail
   a. Verify that breaker is OFF.
   b. Fully open the connections at breaker bottom - #2 Philips.
   c. Slide breaker over bus tabs and engage top DIN rail fully. IMPORTANT - Verify top DIN rail engagement.
   d. Tighten the breaker bottom connection - #2 Philips. Hold firmly downward and torque as labeled.
3. Connect alarm wires to Alarm Card HDR3
   BAT1 Aux + Red
   BAT1 Aux - Black
   a. Run wires to HDR3
   b. Cut wires
   c. Strip 12 mm (1/2")
   d. Push release lever, Insert wire, Release lever, Pull wire to verify
4. Repeat for additional Battery Breakers, BAT2, etc.

B. Connect Batteries

1. Connect Battery Return Cable to Battery Return Bus.
   Battery Return Lug Landings - M8, 25.4mm (1") apart. Torque to 18 Nm (13 ft-lb) - 13mm socket.
2. Verify that breaker is OFF.
   CAUTION: Verify battery voltage and polarity with a voltmeter before proceeding.
3. Connect Battery Cable to lug adapter (factory assembled to breaker).
   Battery Lug Landings - M8, 25.4mm (1") apart for adapters with 2 landings.
   Torque to 18 Nm (13 ft-lb) - 13mm socket.
4. Repeat for additional Battery connections.



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Step 7 - Connect Loads (Outputs)

Load breaker positions are on the right side of the DIN rail. Loads connect to Load Breakers - black.

Load returns connect to the load return bus behind the breakers - M6 lugs (not provided).

1. Connect load return wire to the Load Return bus - M6 lug (not provided).

   Torque 4.0 Nm (35 in-lb) - 10 mm socket.
2. Verify that breaker is OFF.
3. Mount breaker to DIN rail.
   a. Fully open the connection at breaker bottom - #2 Philips.
   b. Slide breaker over bus tab and fully engage top DIN rail.

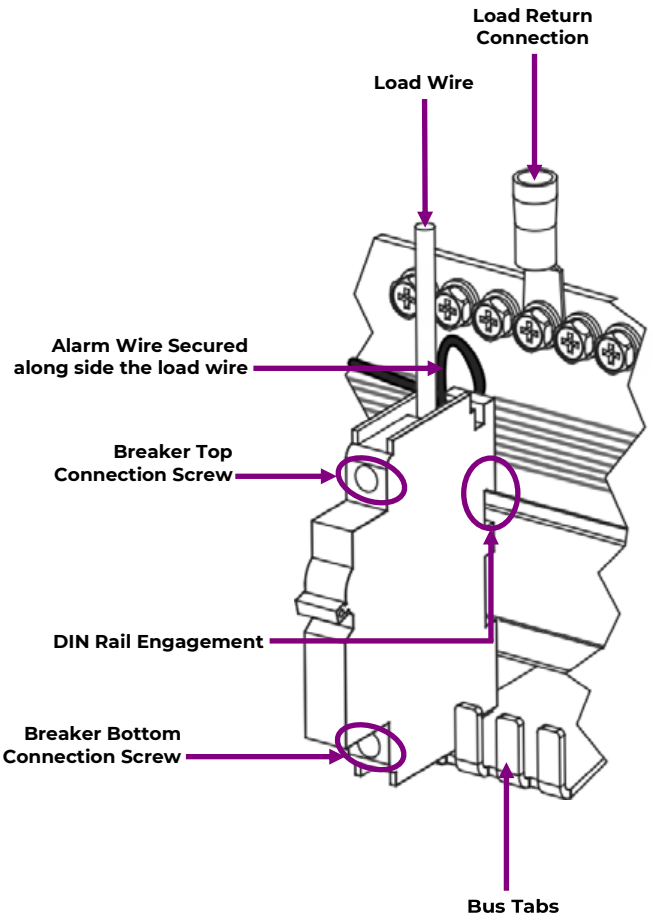
      IMPORTANT - Verify top DIN rail engagement.
   c. Tighten the breaker bottom connection - #2 Philips.

      Hold firmly downward and torque as labeled.
4. Connect alarm wire to load breaker.

   Note: This wire will be secured to the breaker along side the load wire.
   a. Fully open the connection at breaker top- #2 Philips
   b. Choose any wire from the bundle of black wires behind the breakers Cut wire. Strip 10 mm (3/8”) Insert wire into breaker load connection. Do not tighten the breaker connection.
5. Connect load wire to breaker.
   a. Strip the load wire 10mm (3/8”).
   b. Insert load wire into breaker load wire connection alongside the alarm wire.
   c. Tighten the breaker top connection - #2 Philips.

      Assure both the load wire and the alarm wire are secured.
6. Repeat for additional loads.

Break off Cable Entry Tabs as necessary.



Step 8 - Label Connections

ID label is in front of the breakers or on the door.

Mark each connected circuit identification on the ID label.

BATTERY				PRIORITY LOADS								NON-PRIORITY LOADS											
1	2	3	4	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	10	11	12

ID Label Example

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Step 9 - Set Jumpers - LAN Port and Relay per Galaxy Pulsar Edge Controller Quick Start Guide - Skip if no Controller

See Galaxy Pulsar Edge Controller Quick Start Guide.

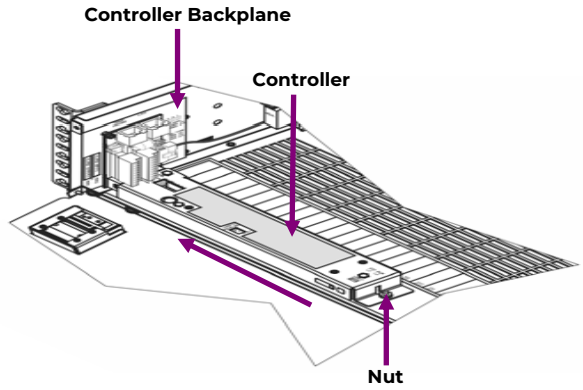
1. Set Jumpers - LAN Port and Relay.

Step 10 - Install Controller - Skip if no Controller

Controller installs to Controller Backplane - inside on the right.

1. Remove nut - 8mm (5/16).
2. Align Controller with the backplane connector.
3. Slide controller firmly to the left.

   CAUTION: DO NOT press on LEDs or LCD.
4. Secure with nut - 8mm (5/16).



Step 11 - Set Shelf IDs per Galaxy Pulsar Edge Controller Quick Start Guide - Skip if Stand-alone Distribution

Step 12 - Install Controller Communications Cables - Skip if Stand-alone Distribution

Controller in Rectifier Shelf

1. Connect the communication cable between Distribution Shelf and adjacent Rectifier Shelf (cable provided).
2. Install other controller communications cables (alarm, LAN, etc.) per Rectifier Shelf Quick Start Guide.

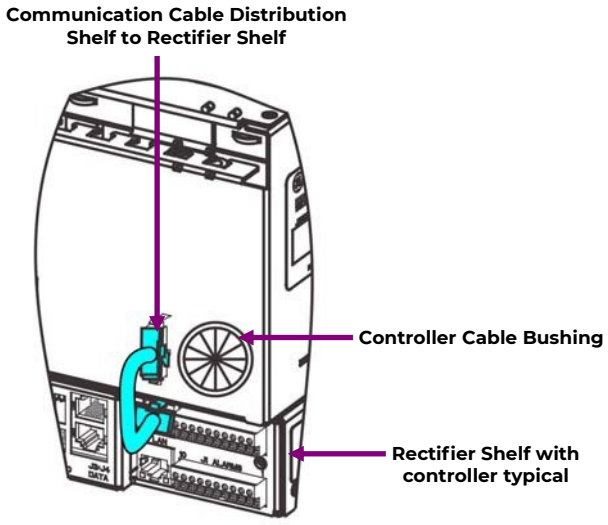
Controller in Distribution Shelf

1. OmniOn Device Comm cable
   a. Route cable out of the shelf through the Control Cable Bushing.
   b. Connect cable to the adjacent Rectifier Shelf.
2. Controller Backplane connections.
   a. J1-2 Alarms - detachable block - Wire to office alarms and signals.

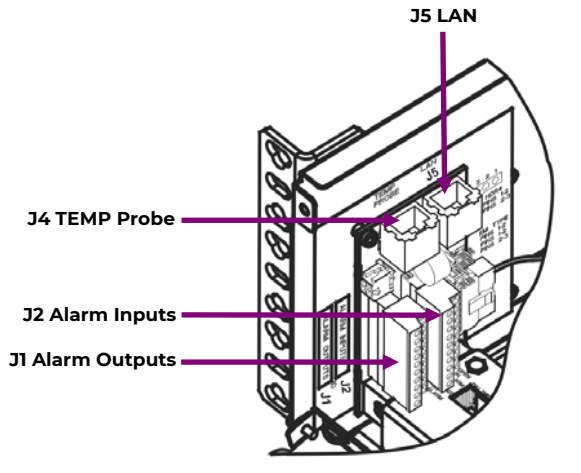
      See Information: Alarm Connections for alarm connection details
   b. J5 LAN - Connect to Ethernet network.

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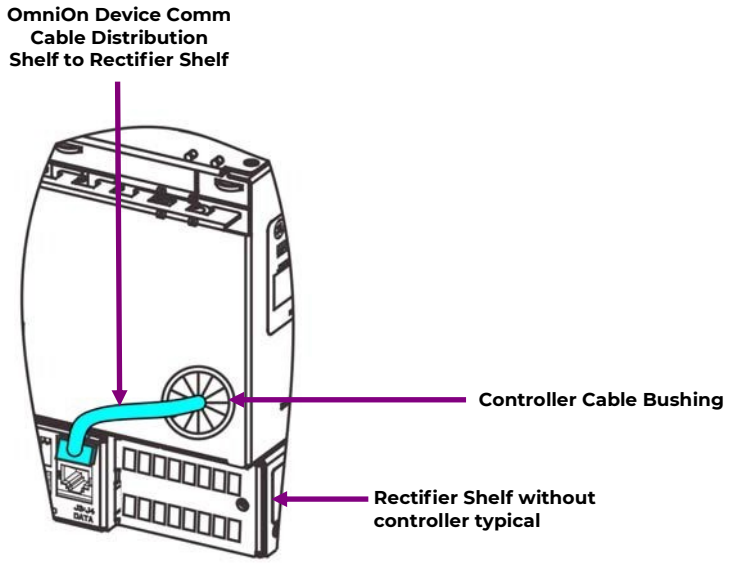
Step 12 - Install Controller Communications Cables (Continued) - Skip if Stand-alone Distribution



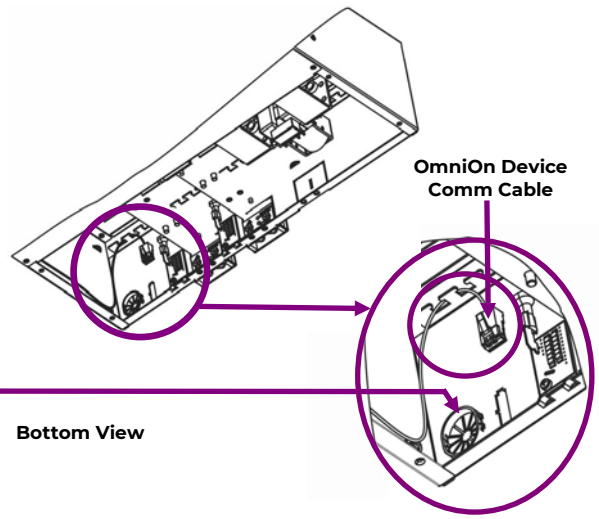
Controller in Rectifier Shelf



Controller Backplane



OmniOn Device Comm Cable - to Rectifier Shelf



OmniOn Device Comm Cable - a shipped

Controller in Distribution Shelf

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Step 13 - Install 1-Wire Battery Temp and Voltage Monitor - Optional - Skip if Stand-alone Distribution

See Information: 1-Wire Battery Temp and Voltage Monitor in Galaxy Pulsar Edge Controller Quick Start Guide
Controller in Rectifier Shelf - Install per Rectifier Shelf Quick Start Guide.

Controller in Distribution Shelf.

Controller Backplane connection

1. J4 TEMP Probe - Connect to 1-Wire Battery Temp and Voltage Monitor

Step 14 - Initial Power Up - Skip if Stand-alone Distribution

Controller in Rectifier Shelf - Initial Power up per Rectifier Shelf Quick Start Guide.

Controller in Distribution Shelf

Verify that all DC and Alarm connections are complete and secure.

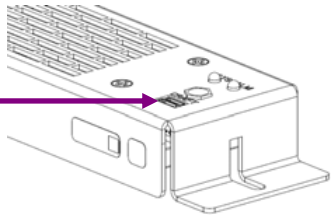
Initial Power up per Rectifier Shelf Quick Start Guide.

If there are no alarms, make required adjustments in the default settings on the controller for this installation.

Step 15 - Configure Controller per Galaxy Pulsar Edge Controller Quick Start Guide - Skip if Stand-alone Distribution

Controller in Rectifier Shelf - Craft Port per Rectifier Shelf Quick Start Guide.

Controller in Distribution Shelf - Craft Port - USB



Information: Alarm Connections - Shelves with controller only

Connections on controller backplane card behind the shelf front door.

Change alarm descriptions via LAN port (Web pages) or Craft port (EasyView2) when required.

Pin/ Connector	J1 Alarm Outputs	J2 Alarm Inputs
1	Output: R3 = Rtn	Input: SPD Fail
2	Output: R2 = Rtn	--
3	Output: R1 = Rtn	Input: AUX MAJ
4	Output: PMN Rtn	Input: Air Cond. Fail
5	Output: PMJ Rtn	Input: Door Open
6	Output: R3 = ACF	-48V
7	Output: R2 = RFA	-48V
8	Output: R1 = BD	-48V
9	Output: PMN	Output: R4 = FAJ[1]
10	Output: PMJ	Output: R4 = Rtn[1,2]

[1] Only with 6 relay controllers (...6R...).
[2] Returns for R1 and R4 are bridged. Other returns are isolated.

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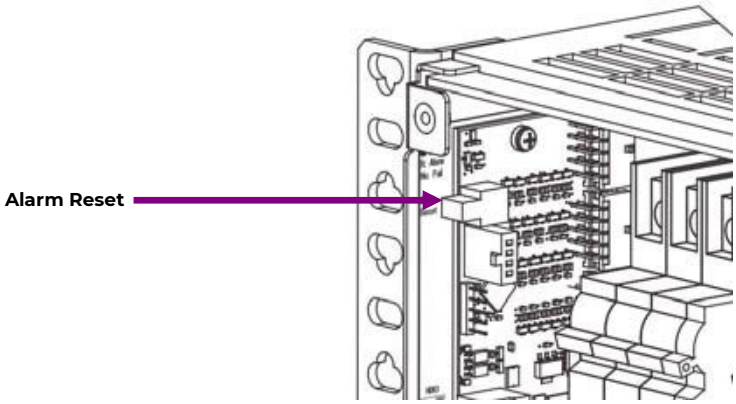
Information: Clear Breaker Alarm

The Alarm Card monitors all breakers that were once ON.

Breaker Alarms, PMJ and FAJ, occur while breakers are OFF or TRIPPED.

Clear Breaker Alarm

Turn the breaker ON.
or
Press the Alarm Reset button to ignore all breakers that are OFF or TRIPPED, until they are again ON.



Specifications and Application

- Specifications and ordering information are in the brochures listed in Reference Documents.
- Equipment and subassembly ports:
  1. are suitable for connection to intra-building or unexposed wiring or cabling;
  2. can be connected to shielded intra-building cabling grounded at both ends.
- Grounding / Bonding Network – Connect to an Isolated Ground Plane (Isolated Bonding Network) or an Integrated Ground Plane (Mesh- Bonding Network or Common Bonding Network).
- Installation Environment – Install in Network Telecommunication Facilities, OSP, or where NEC applies.
- Battery return may be either Isolated DC return (DC-I) or Common DC return (DC-C).

Reference Documents

These documents are available at **omnionpower.com**.

Document	Title
CC848815341	Pulsar Edge Controller Family Product Manual
850035894	Galaxy Pulsar Edge Quick Start Guide SPS Brochure
	Infinity S (NE S) Brochure
	Compact Power Line (CPL) Brochure

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Ordering Information

DIN Style Load Circuit Breakers

ORDERING CODE	AMPERAGE	CB POSITIONS (POLES)	MIN WIRE GAUGE	Picture
450029223	5	1	10	
450029222	10	1	10	
450029220	15	1	10	
450029219	20	1	10	
450029218	25	1	10	
450029217	30	1	10	
450029214	35	1	8	
CC408654288	40	1	8	
450029213	50	1	6	
450028218	63	1	6	
450031081	100	2	2	
450031083	150	3	1/0	
450031084	200	4	2/0	

DIN Battery Breakers

ORDERING CODE	CURRENT RATING	CB POSITIONS(POLES)
150040992	63A	1
150040991	100A	2
150040993	150A	3
150040994	200A	4

Alarm Cables

ORDERING CODE	MODEL	Picture
CC848865980	15ft Auxiliary input alarm cable for Pulsar Plus Controller	
CC848817651	50ft Auxiliary input alarm cable for Pulsar Plus Controller	
CC848817668	150ft Auxiliary input alarm cable for Pulsar Plus Controller	
CC109157442	15ft alarm cable for Pulsar Plus Controller	
CC848817635	50ft alarm cable for Pulsar Plus Controller	
CC848817643	150ft alarm cable for Pulsar Plus Controller	

Battery Monitoring

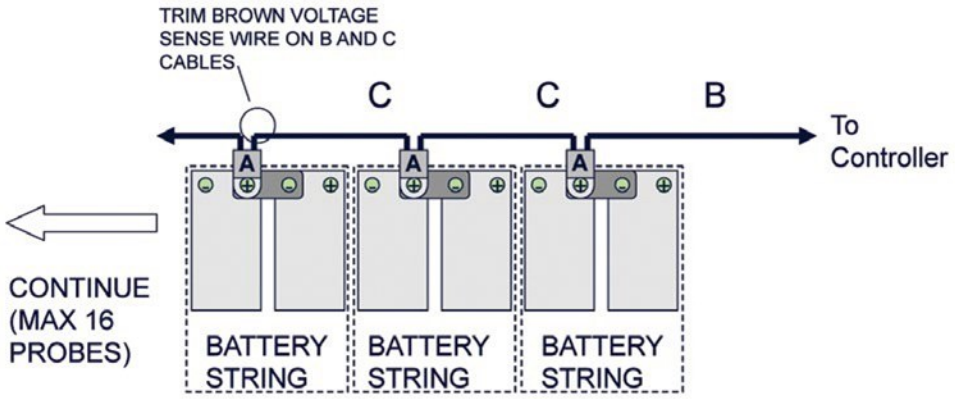
ORDERING CODE	DESCRIPTION		Picture
CC109142980	QS873A Thermal Probe (A)		
150026698	QS873B Ambient Thermal Probe (A)		
CC848817024	10 ft wire set	(B: thermal probe to controller)	
CC109157434	20 ft wire set	(B: thermal probe to controller)	
CC848822560	1 ft wire set	(C: thermal probe to thermal probe)	
848719803	5 ft wire set	(C: thermal probe to thermal probe)	
CC848822321	10 ft wire set	(C: thermal probe to thermal probe)	
850027334	20 ft wire set	(C: thermal probe to thermal probe)	
108958422	ES771A Battery Voltage Monitor Card		
CC848791517	2-1/2 ft wire set	(D: ES771A to thermal probe)	
CC848797290	6 ft wire set	(D: ES771A to thermal probe)	
848719829	10 ft wire set	(D: ES771A to thermal probe)	
CC848791500	4 ft wire set	(G: ES771A to ES771A or controller)	
848652947	10 ft wire set	(G: ES771A to ES771A or controller)	
555052-1	In-Line Coupler (for extending item G above)		

Temperature/Voltage probes are needed for battery monitoring. They are connected to each battery or battery string to provide slope thermal compensation, temperature alarms and voltage imbalance alarms.

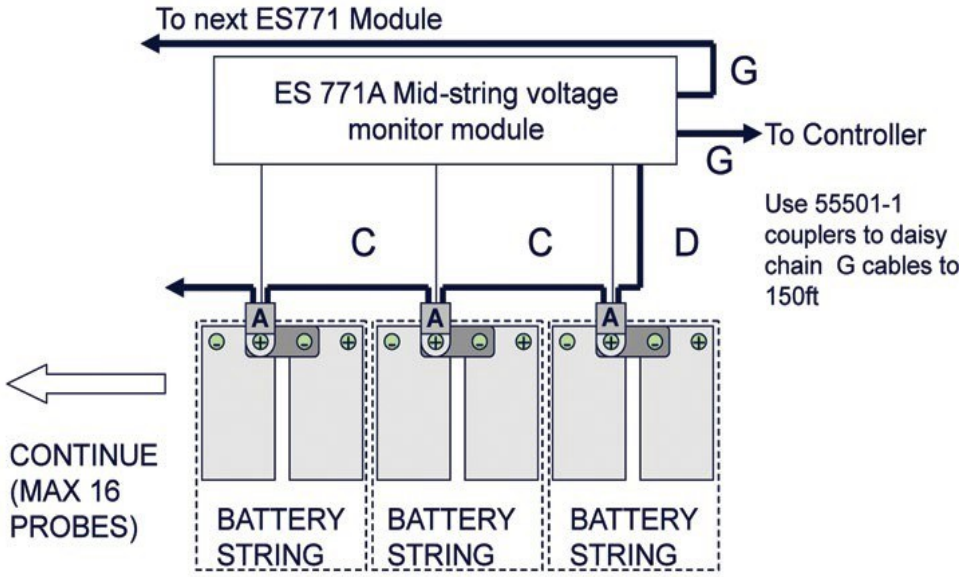
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Ordering Information (Continued)

Battery Monitoring (Continued)



Temperature Measurement



Temperature and Voltage Measurement

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