Infinity S (NE-S) +24V/-48V or -48V/+24V or -48V/-58V System

NES2448/4858-19/23-AC-PS4-DC1E-LVBD

- **Primary/Secondary Voltage**
- **19”/23” wide**
- **AC input**
  - **AC1 = Molex**
  - **AC3 = IEC 320 C19**
  - **AC5 = Terminal Block**
  - **AC5H = Terminal Block**
  - **AC6 = 3-Φ Δ Terminal block**
  - **AC7 = 3-Φ Y Terminal block**
- **# of Power Slots**
- **# of Distribution Panels (1 or 2)**
- **LVD options**
  - **LVBD**
  - **LVBD-LVLD**

NES 23” System

Read and follow all safety statements and precautions in this guide.
Controller: Pulsar Plus Controller is presented in this guide.
Refer to Infinity S Power System Brochure for details and accessories.

Tools required:	Torque wrench (0-240 in-lb / 28 Nm)	5/16,” 7/16” and 1/2” nut drivers	Cable crimpers
	Screw Drivers (#1 Flat & #2 Phillips)	Wire cutters and strippers	

Step 1 – Mount the System

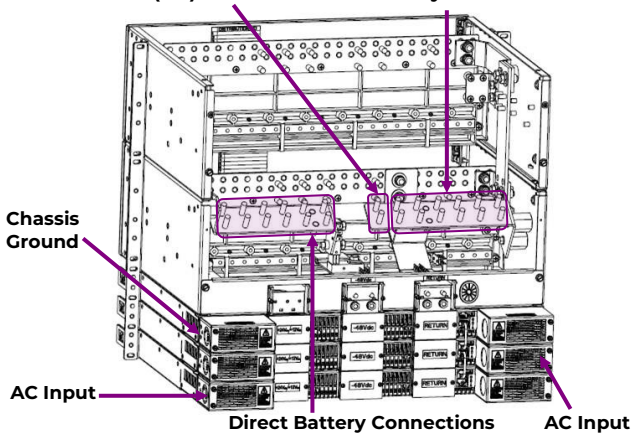
1. Mount the system with a minimum gap of 3 inches behind the system to allow proper airflow.
2. Attach the system to the frame using a minimum of twelve (six on each side) 12-24 screws (provided). Torque to 35 in-lb (7.3 Nm) - 5/16” socket.

Step 2 – Connect Chassis and DC Reference (CO) Ground

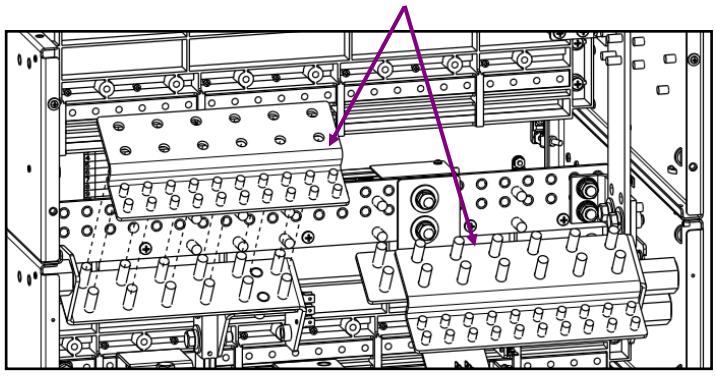
1. Connect Chassis Ground
   Minimum 10 AWG recommended
   Lug Landing - #10 on 5/8” centers (lug not provided).
   Torque to 35 in-lb.
2. Connect DC reference ground
   Lug Landing - 5/16” on 1” centers (lug not provided).
   Torque to 160 in-lb.

Note: If connecting chassis ground to frame surface remove non-conductive frame coating and apply antioxidant for connection.

23” Dual Voltage system Without adaptor bus bars



23” Dual Voltage system With adaptor bus bar kit (Exploded)



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Step 3 – Connect AC Input

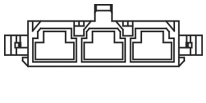
Connect 200/240/277V_{AC} at rear of each rectifier shelf.

Danger: Turn OFF and lock-out tag-out the AC source before making AC connections. When connecting to AC mains, follow all local and national wiring rules.

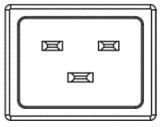
Caution: When routing AC ensure cables do not come in contact with sharp or rough surfaces that may damage insulation and cause a short circuit.

Rectifiers numbers are labeled at each AC input.
AC terminal connections are labeled at each position (L1, L2/N, and Gnd).

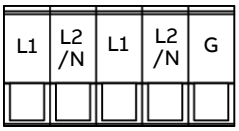
AC Input	Conduit size (Minimum)	Rectifiers per Feed	AWG max
AC1 – Molex mini-fit SR	NA	2	8
AC3 – IEC-320 C19	NA	1	12
AC5 – Individual AC Terminal Block	3/4"	1	10
AC5H – High current Individual AC Terminal Block	3/4"	1	10
AC 6 – 3-Phase DELTA AC Terminal Block	3/4"	3	6
AC 7 – 3-Phase WYE AC Terminal Block	3/4"	3	6



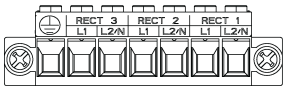
AC1 – Molex



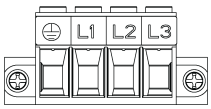
AC3 – IEC



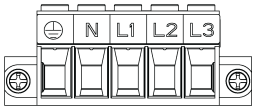
AC5 – TB
AC5H – TB
23"



AC5 – TB
AC5H – TB
19"



AC6
3-Φ DELTA
19"



AC7
3-Φ WYE
19"

Information: Rectifier Options

Rectifier		Input	Output DC		Recommended AC Breaker				
			Voltage	Current	AC1 (2 rectifiers per feed)	AC3	AC5/ AC5H	AC6	AC7
-48V Eco Rectifier blue	NE050ECO48ATEZ	AC 200-277 V_{AC}	48V_{DC}	50A	40A	20A	20A	35A	20A
		AC 110 V_{AC}	48V_{DC}	22A	40A	20A	20A	35A	20A
		DC (+/-30 to +/-150) V_{DC}, 11A max	48V_{DC}	50A	–	15A	15A	N/A	N/A
-48V Rectifier blue	NE075AC48ATEZ/ NE075AC48ATEZ+	AC 200-277 V_{AC}	48V_{DC}	75A/50A[1]	40A	20A	30A	50A	30A
		AC 110 V_{AC}	48V_{DC}	25A	40A	20A	20A	35A	20A
	NE050AC48ATEZ	AC 200-277 V_{AC}	48V_{DC}	50A	40A	20A	20A	35A	20A
		AC 110 V_{AC}	48V_{DC}	22A	40A	20A	20A	35A	20A
+24V Rectifier orange	NE100AC24ATEZ	AC 200-277 V_{AC}	24V_{DC}	100A	40A	20A	20A	35A	20A
		AC 110 V_{AC}	24V_{DC}	44A	40A	20A	20A	35A	20A
+24V Eco Rectifier Orange	NE100ECO24ATEZ	AC 200-277 V_{AC}	24V_{DC}	100A	40A	20A	20A	35A	20A
		AC 110 V_{AC}	24V_{DC}	44A	40A	20A	20A	35A	20A
		DC (+/-30 to +/-150) V_{DC}, 11A max	24V_{DC}	100A	–	15A	15A	N/A	N/A

[1]The rectifier will output 75A in 23" systems with AC5H inputs. All other inputs automatically de-rate the rectifier to 50A output.

Step 3 – Connect AC Input (continued)

Information: Converter Options

Converter		Input	Output DC	
			Voltage	Current
-58V Converter  Blue	NE070DC58A	DC 40-58 V_{DC}, 85A	58V_{DC}	70A
+24V Converter  Orange	NE075DC24A	DC 48V_{DC}, 54A	24V_{DC}	75A

Step 4 – Connect Batteries and DC Output to Loads

The figure shows the DC circuit of the system.

Battery connections are made to the battery bus.

Lug Landings: 3/8” on 1” centers (4)
1/4” on 5/8” centers (12)

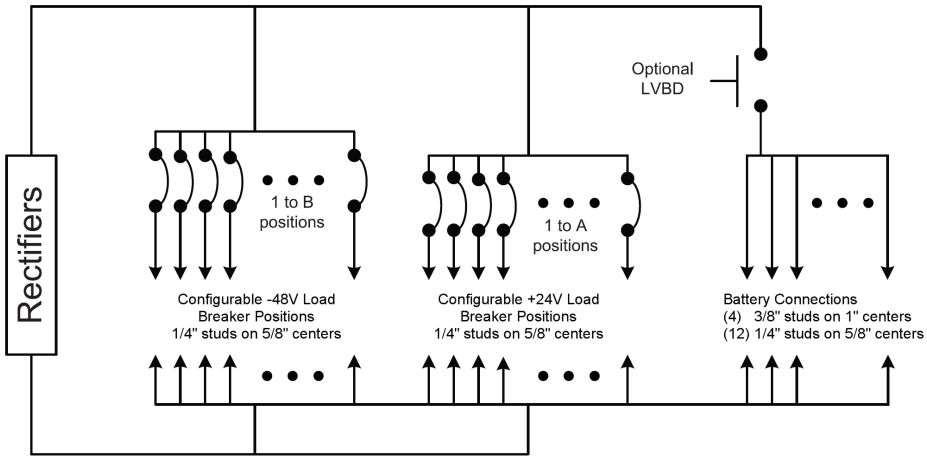
Caution: Verify battery voltage and polarity with voltmeter before connecting.

Load connections are made to bullet-style distribution positions.

Distribution panels are each equipped with 26 bullet-style distribution positions. Each position is selectable between primary and secondary load output.

Lug Landings: 1/4” on 5/8” centers.

Breakers up to 250A, TPS fuses to 70A and GMT style fuses to 12A are available.



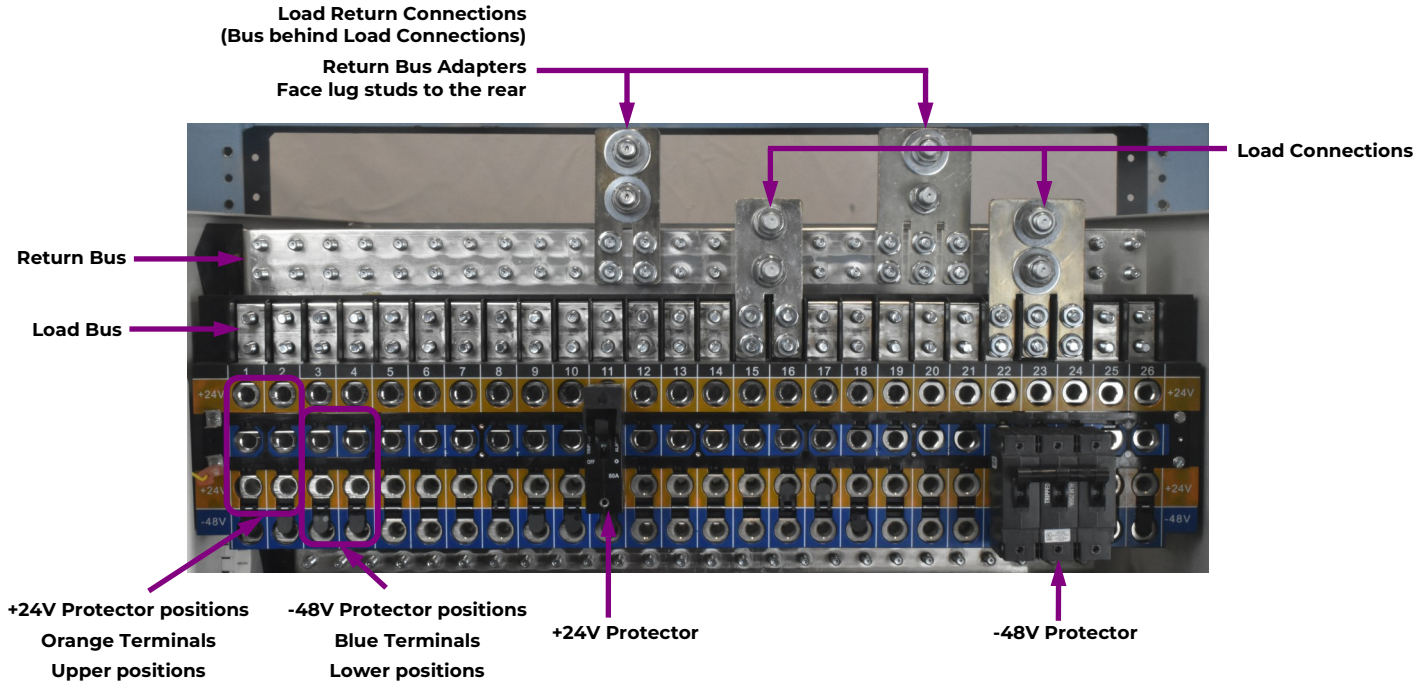
A + B = 26 each for distribution Panel

Lug Landings		
Landings	1/4-20 studs on 5/8” centers Lug tongue width 0.68” max	3/8-16 studs on 1” centers Lug tongue width 0.68” max
Torque	65 in-lb - 7/16” socket	240 in-lb - 9/16” socket

Information: Load rating

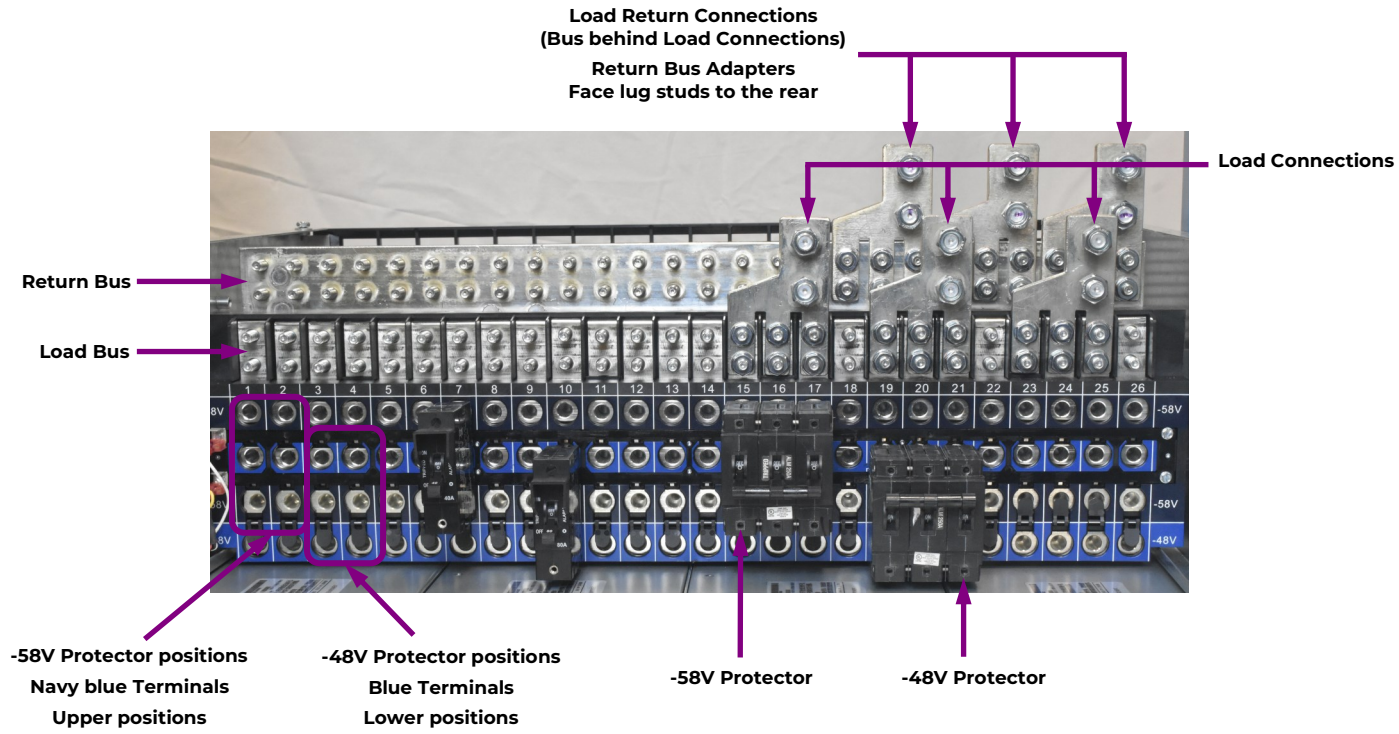
Maximum output load rating – 800A

Step 4 – Connect Batteries and DC Output to Loads (continued)



Orange	+24 VDC Bus
Blue	-48 VDC Bus

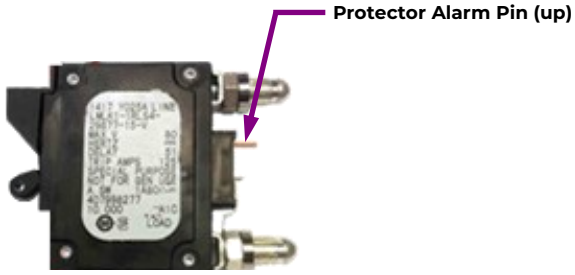
Connections for +24V/-48V System



Navy Blue	-58 VDC Bus
Blue	-48 VDC Bus

Connections for -48V/-58V System

Step 4 – Connect Batteries and DC Output to Loads (continued)



Protector

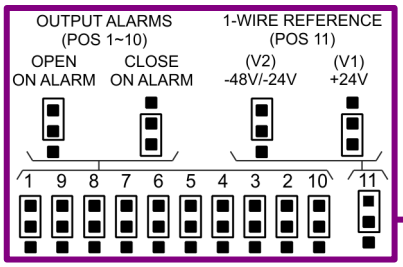
Two multi-pole adapters are required for each multi-pole breaker - figure below.

Multi-Pole Adapter Kits - 2 required per breaker			
	CC848756916 	850021775 	850021955 
Poles	2	2	3
Lug Landings	1/4" x 5/8"	3/8" x 1"	3/8" x 1"

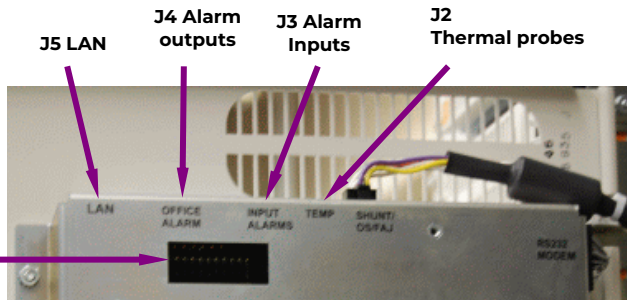
Step 5 – Set Controller Jumpers

Pulsar Plus

Set jumpers 1 thru 10 for the ten alarm relays as Close on Alarm or Open on Alarm; Factory default setting is Open on Alarm.



Alarm Relay Jumpers
Factory Defaults are Open On Alarm



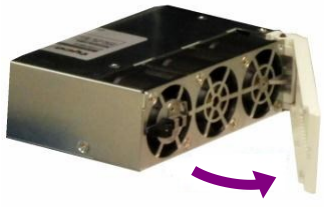
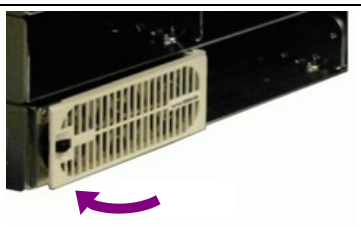
Controller Jumpers and Connections

Step 6 – Connect Controller Signals

Connect per site engineering instructions.

Pulsar Plus - Connect to J1, J2, J3, J4, and J5. See Information Controller Connections.
All controller connections are accessible on the left side of the controller, with the controller installed.

Step 7 – Rectifier Installation

Slide the rectifier into the rectifier slot approximately 3/4 of the way.	Open the faceplate by sliding the faceplate latch to the left until the faceplate releases and swings outward.	Slide the unit into the slot until it engages with the back of the shelf. Swing the faceplate closed to fully seat the rectifier. Verify the faceplate is latched.
		

Step 8 – Initial Start Up

Verify that all AC, DC, GND and Controller connections are complete and secure.

Using a multimeter, Verify plant reference ground and chassis ground resistance to side ground bar is less than 0.1 Ohms. With rectifiers and converters unplugged as well as all load breakers on and AC breakers off, verify resistance of battery bus to ground is greater than 1MΩ. If being operated as an ungrounded system, verify both positive and negative bus measurement to each other and ground is greater than 1MΩ.

Turn on AC input breakers. If there are no alarms, make required adjustments to the default settings on the controller for this installation.

Step 9 – Configure Controller

Verify and edit controller basic configuration parameters per site engineering instructions.
Pulsar Plus - per Galaxy Pulsar Plus Product Manual

Information: Controller Basic Operation

View and change system parameters from the factory defaults via

A) Controller Display

B) Craft Port on front of controller using a laptop with EasyView2 software or HyperTerminal. EasyView2 (GUI) software can be downloaded from **www.omnionpower.com.**

C) J5 LAN port web pages using a laptop with browser. LAN port Server mode is for local laptop connection. Set the LAN port to Server: With the controller set to Server enter the default IP address 192.168.2.1 (default) in the web browser address field.
Warning: Do not connect J5 LAN port to a network when set to Server. Set the controller to Client or Static before connecting to the network. Static is the factory default setting and the typical setting for most networks.

Controller Alarm Status: The display changes colors; Green = Normal, Amber = Minor Alarm, Red = Critical/Major Alarm

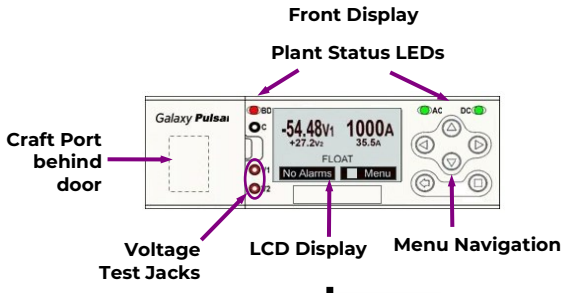
Some alarms may occur during initial installation; example: thermal probe fail or Major/Minor communication fail.

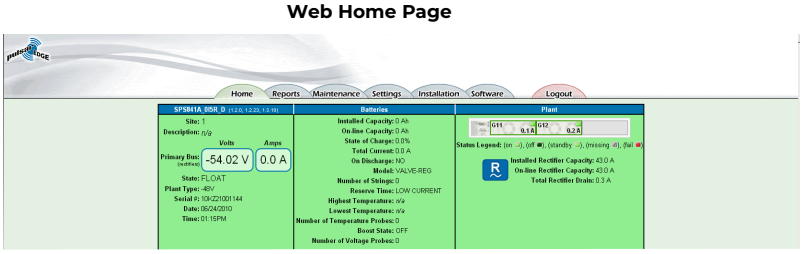
Clear these alarms: Via Controller Display: follow the menu path; Menu > Control/Operation > Clear Events or Uninstall Equipment.
Via web pages or EasyView2; Select the Maintenance tab > clear latched events and clear missing devices.

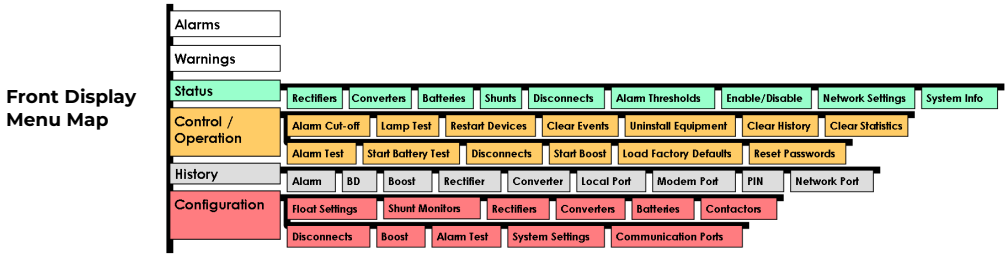
Verify Basic Installation Settings: Date, Time, Battery Type, number of strings and float voltage

Controller Display: Menu > Configuration > System Settings and Menu > Configuration > Batteries.

Web pages or EasyView2: Installation Tab for Date, Time. Site ID and Site Description.
Settings Tab > Battery Management for Battery Type and number of battery strings installed.







Information: Controller Default Voltage Settings and Ranges

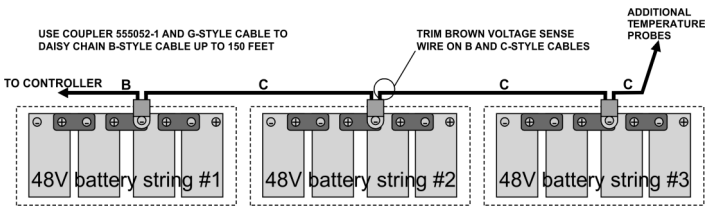
Parameter	Range		Valve-Reg Default		Flooded		NiCd	
	-48V	+24V	-48V	+24V	-48V	+24V	-48V	+24V
Rectifier Float Selective High Voltage Shutdown	-50 to -60V	25 to 30V	58.50	29.25	58.50	29.25	58.50	29.25
High Float Voltage Major Alarm	-50 to -60V	25.74 to 31.75V	57.00	28.24	57.00	28.24	57.00	28.24
High Float Voltage Minor Alarm	-50 to -60V	24.75 to 29.75V	56.00	27.74	56.00	27.74	56.00	27.74
Rectifier/System Float Voltage	-42 to –56.5V	21 to 28V	54.48	27.24	52.08	26.04	54.40	27.20
Battery on Discharge Float Alarm	-46 to -55V	23 to 28V	51.00	25.54	50.00	25.54	51.00	25.54
Very Low Float Voltage Alarm	-40 to -51V	20 to 25.5V	46.00	23.00	46.00	23.00	46.00	23.00
Rectifier On Threshold	-40 to -51V	20 to 25.5V	44.00	22.00	44.00	22.00	44.00	22.00

Information: Battery Monitoring Connections

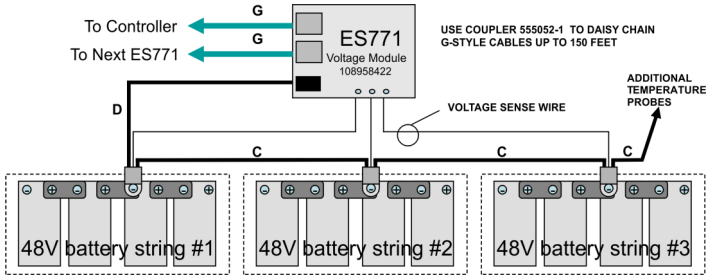
Battery Monitoring is accomplished with a “Daisy Chained” series of probes connected to J2. The Probes monitor battery temperature and voltage (ES771 required to monitor voltage). Bolt the Probe under the “–” terminal connector hardware; NOT under the connecting lug.

Max per system: Probes - 16, ES771 Modules - 6.

Battery Temperature Measurement



Battery Temperature and Voltage Measurement



Ordering Codes	Descriptions
CC109142980	QS873A Battery Thermal Probe
150026698	QS873B Ambient Probe
CC848817024	B 10’ controller to thermal probe wireset
CC109157434	B 20’ controller to thermal probe wireset
CC848822560	C 1’ thermal probe to thermal probe wireset
848719803	C 5’ thermal probe to thermal probe wireset
CC848822321	C 10’ thermal probe to thermal probe wireset
850037334	C 20’ thermal probe to thermal probe wireset

Ordering Codes	Descriptions
108958422	ES771A Voltage Monitor Card
CC848791517	D 2 ½’ ES771A to probe wireset
CC848797290	D 6’ ES771A to probe wireset
848719829	D 10’ ES771A to probe wireset
CC848791500	G 4’ ES771A to ES771A or controller wireset
848652947	G 10’ ES771A to ES771A or controller wireset

Information: AC Cord Options

IEC-Style 8ft, 12AWG	
CC848847368	No plug
CC848850792	5-15P
CC848850801	5-20P
CC848850826	6-15P
CC848850834	6-20P
CC848850842	L6-20P

Molex mini-fit SR-Style No Plug	
CC848822420	(2) 15 ft., 3X8AWG
848710711	(2) 10 ft., 3X8AWG
CC848830522	(2) 4 ft., 3X8AWG
CC848773515	15 ft., 10AWG SO Cord
CC848906586	10 ft., 8AWG, SO Cord

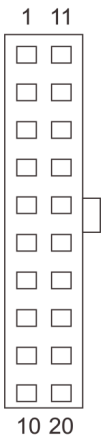
Minimum AC Cable Temperature Rating : 90°C

Information: Controller Connections

Alarm Outputs

Alarm relays are factory set to Open On Alarm. If Close On Alarm is desired adjust controller alarm jumpers. See diagram in step 5 for the location of the controller alarm jumpers. Connector J4 provides access to the primary customer alarm outputs. J4 is a 20-pin latching connector.

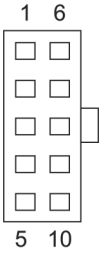
Standard Controller Alarm Output Defaults		Pin	Color Option 1	Color Option 2
PCR	Power Critical	1	BL	BL
PCR_C	Power Critical_C	11	W	BL/BK
PMJ	Power Major	2	O	O
PMJ_C	Power Major_C	12	W	O/BK
PMN	Power Minor	3	G	G
PMN_C	Power Minor_C	13	W	G/BK
R1	Battery On Discharge	4	BR	W
R1_C	Battery On Discharge_C (BD_C)	14	W	W/BK
R2	Very Low Voltage (VLV)	5	S	BK
R2_C	Very Low Voltage_C (VLV_C)	15	W	BK/W
R3	Fuse Alarm Major (FAJ)	6	BL	BL/W
R3_C	Fuse Alarm Major_C (FAJ_C)	16	R	BL/R
R4	AC Fail (ACF)	7	O	O/R
R4_C	AC Fail_C (ACF_C)	17	R	R
R5	Rectifier Fail (RFA)	8	G	G/W
R5_C	Rectifier Fail_C (RFA_C)	18	R	R/G
R6	Mult. Rectifier Fail (MRFA)	9	BR	W/R
R6_C	Mult. Rectifier Fail_C (MRFA_C)	19	R	R/W
R7	High Voltage (HV)	10	S	BK/R
R7_C	High Voltage_C (HV_C)	20	R	R/BK



Alarm Inputs

Default alarm descriptions may be changed as needed using web pages or Easyview2. J3 is a 10-pin latching connector.

Standard Controller Alarm Input Defaults	J3 Pin	Color
Air Con Fail	1	BK
Air Con Fail_Return	8	V
Door Open	2	BR
Door Open_Return	8	V
Aux PMJ Input	3	R
Battery Test/ GSTR	4	O
Battery Test_Return	9	S
EPO	5	Y
EPO_Return	10	W
Hi ext. Temp.	6	G
Hi ext. Temp._Return	8	V
Low ext. Temp.	7	BL
Low ext. Temp._Return	8	V



Alarm Output Cables		Alarm Input Cables	
CC848890137	5 ft.	CC848890153	5 ft.
CC109157442	15ft	CC848865980	15 ft.
CC848817635	50 ft	CC848817651	50 ft.
CC848817643	150 ft	CC848817668	150 ft.

Specifications and Application

- Specifications and ordering information are in the Infinity S Ordering Guide available at **www.omnionpower.com**
- External Surge Protective Device (SPD) is required on all AC inputs.
- 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). Failure to properly bond the power plant to ground may void the warranty in the event of excessive fault or surge current.
- 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 **www.omnionpower.com**

Document	Title
CC848815341	Galaxy Pulsar Plus Product Manual
CPB-NES	Infinity S Power System Brochure
CC848815325	Infinity NEM Install Guide

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.
    - GMT Style Fuses - Use only fuses provided with safety caps.
- 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.

Déclarations de sécurité

- N'installez pas cet équipement sur des surfaces combustibles.
- Règles et réglementations - Suivez toutes les règles et réglementations nationales et locales lors des connexions sur le terrain.
- Connecteurs à compression
    - Installations aux États-Unis ou au Canada - utilisez des connecteurs de compression homologués/certifiés pour terminer Conducteurs de fils de terrain certifiés.
    - Toutes les installations - appliquez le connecteur approprié au conducteur de taille correcte tel que spécifié par le fabricant de connecteurs, en utilisant uniquement l'outillage recommandé ou approuvé par le fabricant de connecteurs pour ce connecteur.
- Fixation de la connexion électrique : Serrez aux valeurs spécifiées sur les étiquettes ou dans la documentation du produit.
- Habillage de câble - Habillez-vous pour éviter d'endommager les conducteurs et une contrainte excessive sur les connecteurs.
- Disjoncteurs et fusibles
    - Utilisez uniquement ceux spécifiés dans le guide de commande de l'équipement.
    - Taille requise par le National Electric Code (NEC) et/ou les codes locaux.

      Limites de sécurité testées - Reportez-vous aux valeurs nominales de l'équipement pour vous assurer que le courant ne dépasse pas:

      Charge continue (Liste 1) - 60% de la cote de protection

      Charge maximale (Liste 2 - généralement en fin de décharge) - 80% de la valeur nominale du protecteur.
- Fusibles de style GMT - Utilisez uniquement des fusibles fournis avec des capuchons de sécurité.
- Conducteurs câblés sur le terrain - Suivez tous les codes électriques nationaux (NEC) et les règles et réglementations locales.
    - Indice d'isolation : 90°C minimum; 105°C (minimum) si à l'intérieur des armoires d'équipement fermées.
    - Dimensionnez les conducteurs CA câblés sur place avec un courant admissible de 75°C (NEC) égal ou supérieur à la valeur nominale du disjoncteur du panneau de distribution.
- Déconnexion/protection des entrées CA et CC - Fournir des dispositifs accessibles pour couper l'alimentation d'entrée en cas d'urgence.
- Signaux d'alarme - Fournit une protection de limitation de courant externe. Note 60V, 0.5A 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 terre de service CA de l'armoire. Dans les huttes, les chambres fortes et les bureaux centraux, connectez-vous au réseau de liaison du système.

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.

Précautions

- Installer, mettre en service et utiliser l'équipement uniquement par du personnel professionnel, compétent et qualifié possédant les connaissances et l'expérience pratique nécessaires en matière d'équipement électrique et qui comprennent les dangers qui peuvent survenir lors de l'utilisation de ce type de Équipement.
- Débranchez les piles des sorties et/ou suivez les procédures de sécurité tout en travaillant sur l'équipement. Les batteries peuvent être connectées parallèlement à la sortie des redresseurs. Éteindre les redresseurs n'enlèva pas forcément l'alimentation du bus.
- Ne débranchez pas les raccords de liaison permanents 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'appareil. Des courants de fuite élevés peuvent être possibles.
- Exercez des soins et respectez tous les avertissements et pratiques de sécurité lors de l'entretien de cet équipement. L'énergie et les tensions dangereuses sont présentes dans l'unité et sur les câbles d'interface qui peuvent choquer ou causer des blessures graves. Lorsqu'il est équipé de modules de sonnerie, des tensions dangereuses seront présentes sur les connecteurs de sortie de la sonnerie.
- Utiliser les précautions suivantes en plus des procédures appropriées de formation et de sécurité d'emploi:
    - n'utiliser que des outils correctement isolés.
    - Enlevez tous les objets métalliques (porte-clés, lunettes, bagues, montres ou autres bijoux).
    - suivez les procédures de lock out tag out (LOTO): client spécifié, spécifique au site ou général selon le cas. Débranchez toutes les entrées d'alimentation avant d'entretenir l'équipement. Vérifiez l'alimentation de plusieurs entrées.
    - Portez des lunettes de sécurité.
    - respectez les exigences relatives aux équipements de protection individuelle: client spécifié, spécifique au site ou général selon le cas.
    - tester les circuits avant de les toucher.
    - être conscient des dangers potentiels avant d'entretenir l'équipement.
    - identifier les potentiels électriques dangereux exposés sur les connecteurs, le câblage, etc.
    - Évitez de contacter les circuits lors du démontage ou du remplacement des couvercles.
    - utilisez une sangle ESD personnelle lors de l'accès ou de la suppression de composants électroniques.
- Le personnel équipé de dispositifs médicaux électroniques doit être conscient que la proximité des systèmes de distribution et d'alimentation en courant continu, y compris les piles et les câbles, généralement dans les salles de télécommunication, peut affecter les appareils électroniques médicaux, tels que les stimulateurs cardiaques. Les effets diminuent avec la distance.

Change History (excludes grammar & clarifications)

Revision	Date	Description of the change
1.0	02/27/2023	Initial release
2.0	02/28/2023	-48V/-58V System added
3.0	06/30/2023	Updated product description on page no. 1, Added current ratings of AC6 and AC7 TB on page no. 2
3.1	11/28/2023	Updated as per OmniOn template

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