Infinity S (NE-S) -48V Power System

Quick Start Guide: 8600243957P

NES4812-23-AC1-PS4-DC1E-LVBD

- Voltages
  48YY
  48 - Primary
  YY -Secondary (12 or 24)
- 19” / 23”
- AC input
  AC1 - Molex
  AC3 - IEC 3 20 C 19
  AC5 - Term Block(19”only)
  AC5H - Term Block
  AC6 - 3 phase delta Term Block(19”only)
  AC7 - 3 phase delta wye Term Block (19” only)
- # of Power Slots
- # of Distribution Panels (1 or 2)
- LVBD option



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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.
  - 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.

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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Déclarations de sécurité

- N'installez pas cet équipement sur des surfaces combustibles.
- Règles et règlements-respectez toutes les règles et réglementations nationales et locales lors de la réalisation de connexions sur le terrain.
- Connecteurs de compression
    - U. S. ou installations du Canada-utiliser des connecteurs de compression répertoriés/certifiés pour mettre fin aux conducteurs de fil de champ répertoriés/certifiés.
    - toutes les installations-appliquer le connecteur approprié au conducteur de taille correct tel que spécifié par le fabricant du connecteur, en utilisant uniquement l'outillage recommandé ou approuvé par le fabricant du connecteur pour ce connecteur.
- Fixation de la connexion électrique: Serrez les valeurs spécifiées sur les étiquettes ou dans la documentation du produit.
- Robe de câble-robe pour éviter d'endommager les conducteurs et une contrainte excessive sur les connecteurs.
- Disjoncteurs et fusibles
    - n'utiliser que ceux spécifiés dans le Guide de commande de l'équipement.
    - la taille exigée par le National Electric Code (NEC) et/ou les codes locaux.
- Limites de sécurité testées-référez-vous aux cotes de l'équipement pour assurer que le courant ne dépasse pas: charge continue (Liste 1)-60% du degré de protection
- Charge maximale (liste 2-typiquement fin de décharge)-80% du degré de protection.
    - fusibles de type GMT-Utilisez uniquement des fusibles fournis avec des capuchons de sécurité.
- Conducteurs câblés-suivez tout le code national de l'électricité (NEC) et les règles et réglementations locales.
    - indice d'isolation: 90 ° c minimum; 105 ° c (minimum) si interne aux armoires d'équipement fermées.
    - la taille des conducteurs câblés de champ AC avec une ampacité de 75 ° c (NEC) égale ou supérieure à leur indice de disjoncteur de la carte de panneau.
    - la taille des conducteurs de champ DC avec une ampacité de 90 ° c (NEC) égale ou supérieure à la puissance nominale du disjoncteur/fusible.
- Déconnexion/protection d'entrée AC et DC-fournissez des dispositifs accessibles pour enlever la puissance d'entrée en cas d'urgence.
- Signaux d'alarme-fournir une protection de limitation de courant externe. Note 60V, 0.5 A sauf indication contraire.
- Mise à la terre-raccorder le châssis de l'équipement directement à la terre. Dans les armoires d'équipement fermées, raccorder au bus de masse du service AC de l'armoire. Dans les cabanes, les coffres et les bureaux centraux se connectent au réseau de liaison du système.

Precautions

- 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.

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Tools required:

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

Step 1 – Mount the System

Mount the system with a minimum gap of 3 inches behind the system to allow proper airflow.

1. 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

Chassis Ground lug - #10 or 1/4" on 5/8" centers (not provided).

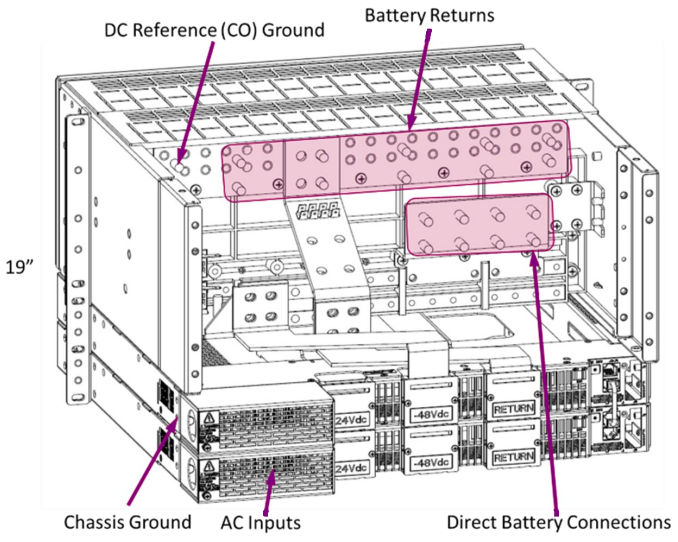
Minimum 10 AWG recommended.

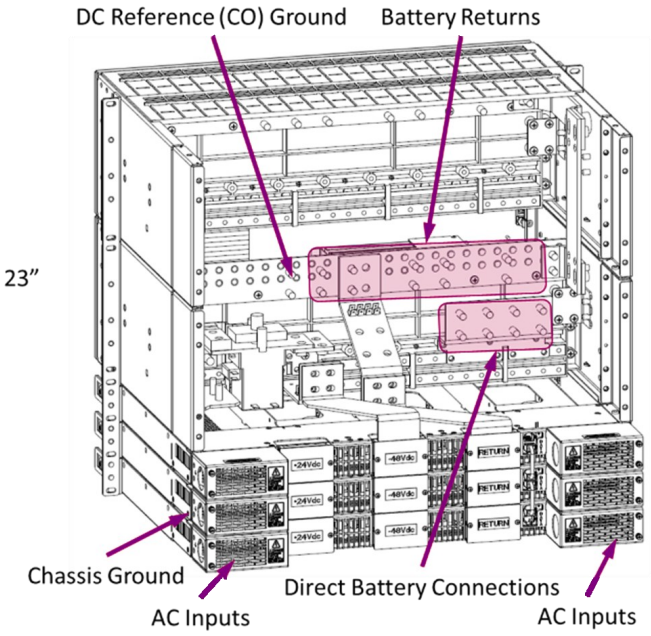
Torque to 10-32 screws to 30 in-lb (3.4 Nm) – 5/16" Socket.

DC reference ground lug - 5/16" or 3/8" on 1" centers (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.





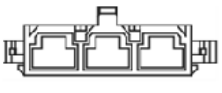
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Step 3 – Connect AC inputs

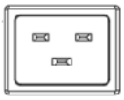
Connect 120/208/240VAC at rear of each rectifier shelf.

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.



AC1-Molex



AC3-IEC



AC5H-TB 23”



AC5-TB 19”



AC6-TB 19”
3ΦDelta



AC7-TB 19”
3ΦWye

Rectifiers numbers are labeled at each AC input.

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

AC Terminal Block is in the AC box on the rear of the rectifier shelf

Connect AC input cord to the detachable input terminal block in the wiring box – knock out for ¾” conduit or cord grip. Strip and torque per the table. Pull on wire to verify secure connection.

AC Input	Rectifiers per feed	19”	23”	AWG max	Strip Wire (mm)	Torque In-lb (Nm)
AC1 - Molex mini-fit SR	2		Yes	8	n/a	-
AC3 - IEC-320 C19	1	Yes	Yes	12	n/a	-
AC5 - Terminal Block	1	Yes	Yes	10	10	7 (0.75)
AC5H - Term Block (23” only)						
AC6 - Terminal Block 3-phase Delta	3	Yes		6	12	16 (1.75)
AC7 – Terminal Block 3-phase Wye	3	Yes		6	12	16 (1.75)

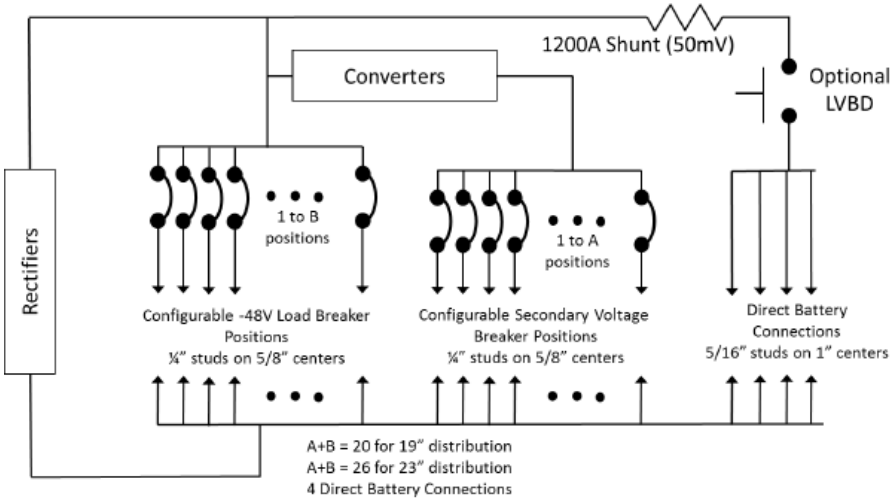
Step 4 – Connect Batteries and DC Output to Loads

The figure to the right shows the DC circuit of the system.

Battery connections are made direct to the battery bus.

Connect the (+) cables of each battery string to the Battery Return bus of the Infinity power system. Prepare the (-) cable of each battery string for connection to the Battery HOT bus of the Infinity power system, but do NOT connect them at this time.

Load Connections are made using Load Breakers in the main distribution area.



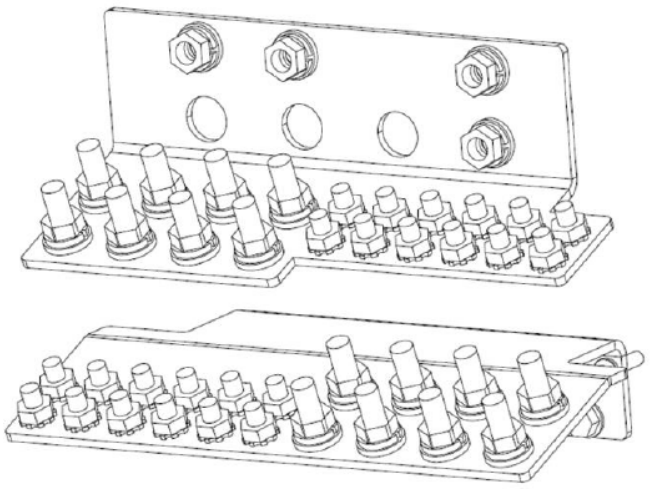
Note: (+) Battery Cable Connects to the Power System Return Bus!

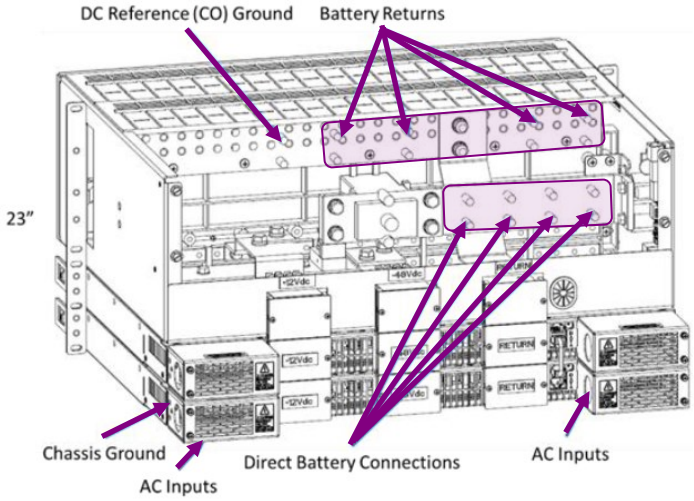
In an Infinity power system using 48V Rectifiers, the system return bus is (+) in polarity and the system load bus is (-) in polarity. The (+) Battery String cables connect to the system RETURN bus. The (-) Battery String cables connect to the power system HOT battery bus.

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

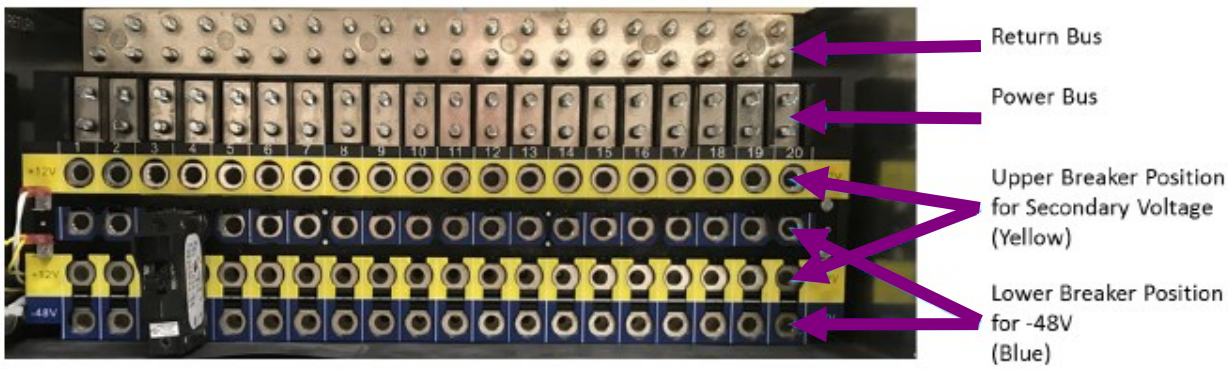
	Lug Landings	
	Distribution	**Battery Bus**
Landings	1/4-20studs on 5/8" centers Lug tongue width 0.68" max	5/16-18 studs on 1" centers
Torque	65 in-lb - 7/16" socket	160 in-lb - 1/2" socket





Optional Battery connection bus adapter - for angled battery cable direction

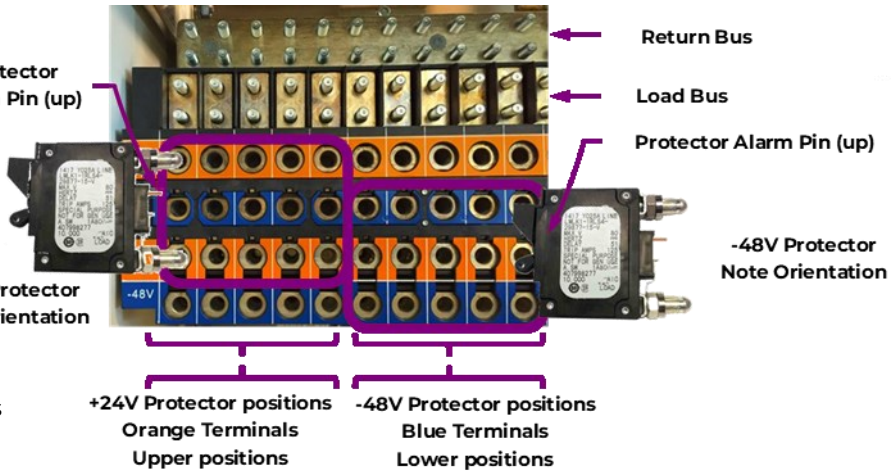
Bolts to the Battery Return bus and Direct Battery Connection bus bars.



Distribution panels are each equipped with 20 (19" panel) or 26 (23" panel) bullet-style distribution positions. Each position is selectable between Primary or Secondary (Converter) Voltage outputs.

Breaker sizes up to 250A, TPS fuses to 70A and GMT fuses to 12A are available.

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Yellow	-12 VDC Bus
Orange	+24 VDC Bus
Blue	-48 VDC Bus

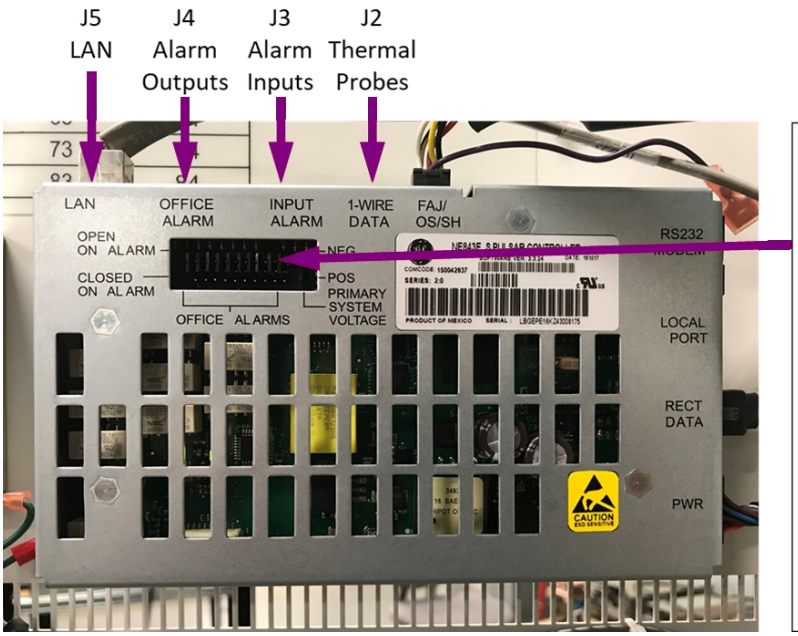
Two multi-pole adapters are required for each multi-pole breaker - see illustration, right

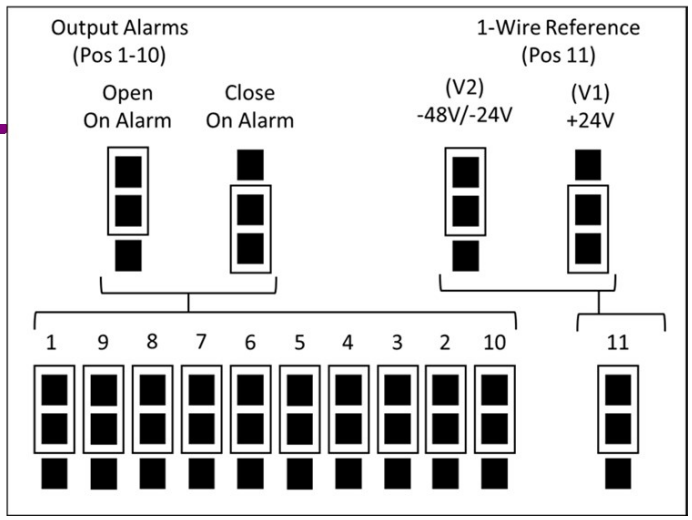
Multi-Pole Adapter Kits - 2 required per breaker			
	CC848756916 	850021775 	850021955 
Poles	2	2	3
Lug Landings	1/4” x 5/8”	3/8” x 1”	3/8” x 1”

Step 5 – Set Controller alarm relay 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.





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Step 6 – Set Controller Signals

Connect per site engineering instructions.

Pulsar Plus - Connect to J2, J3, J4, and J5.

See Information Controller Connections & Information Battery Connections.

Step 7 – Installation of Power Modules (Rectifier / Converter)

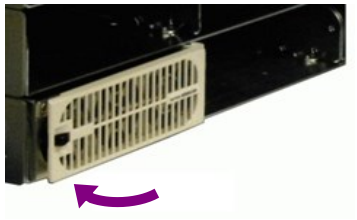
Universal Power Shelves accept rectifier and converters in any slot

Caution: The rectifier latch is not a carrying handle.

1. Slide the rectifier into the rectifier slot approximately — of the way.
2. Open the faceplate by sliding the latch to the left until the faceplate releases and swings outward.
3. Slide the rectifier 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.
4. Correct insertion of the rectifier will automatically add the unit to the controllers' inventory of units.

1. 

2. 

3. 

To remove a rectifier:

A. Open latch fully to release and remove.

B. Enter Inventory section of controller and remove hardware to clear alarm.

Step 8 – Initial Startup

Verify the system is mounted with minimum 3 inch gap in the rear for ventilation and rectifiers and converters use forced air colling.

Verify the chassis and DC return bus to the site ground reference.

Verify the AC power input circuits to the system positions and is equipped with rectifier.

Verify the positive cables of battery string to battery return bus and negative cables of battery string to Battery HOT bus of the system as shown in step 4.

Energize the AC input circuits and slot one rectifier module only. Wait for the system controller to energize, establishing communication with the slotted rectifier.

Use a VOM to measure the open string voltage of the first battery string and adjust the system controller to match that voltage. Use the VOM again between the (-) cable(s) of the first battery string and Battery HOT bus of the Infinity power system. Measured voltage must be less than 0.05V. If necessary, adjust the system controller voltage again to achieve that. Only then connect that battery string (-) cable(s) to the Battery HOT bus of the Infinity power system.

Slot the remaining rectifiers and converters into the power system, waiting for each unit to power up and establish communication with the system controller. Adjust the controller float voltage to the desired setting for the batteries used in the power system. Complete all other power system installation work necessary.

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

Refer to Galaxy Pulsar Plus Product Manual for additional information.

Information: Controller Default Voltage Settings

Parameter	Range	Valve-Reg (Default)	Flooded	NiCd
Rectifier Float Selective High Voltage Shutdown	-50 to -60V	58.50	58.50	58.50
High Float Voltage Major Alarm	-50 to -60V	57.00	57.00	57.00
High Float Voltage Minor Alarm	-50 to -60V	56.00	56.00	56.00
Rectifier/System Float Voltage	-42 to -56.5V	54.48	52.08	54.40
Battery on Discharge Float Alarm	-46 to -55V	51.00	50.00	51.00
Very Low Float Voltage Alarm	-40 to -51V	46.00	46.00	46.00
Rectifier On Threshold	-40 to -51V	44.00	44.00	44.00

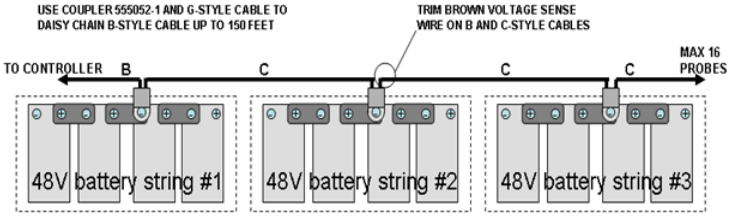
Information: AC Cord Options

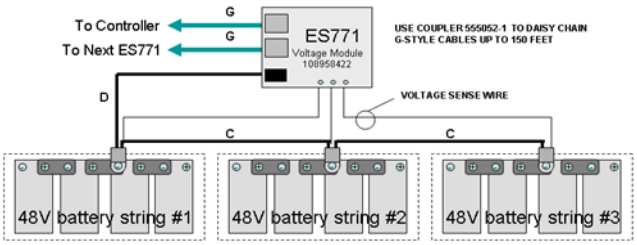
IEC-Style, 8ft, 12AWG		
Part Number	Plug	Length
CC848847368	No plug	8 ft
CC848850792	5-15P	8 ft
CC848850801	5-20P	8 ft
CC848850826	6-15P	8 ft
CC848850834	6-20P	8 ft
CC848850842	L6-20P	8 ft
850044361	L5-15P	15 ft
850044362	L5-20P	15 ft
CC848895961	L6-20P	15 ft

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

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.





Ordering Code	Descriptions
CC109142980	QS873A Thermal 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

Temperature Measurement

Ordering Code	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

Temperature and Voltage Measurement

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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.



Alarm Output Cables	
CC848890137	5 ft.
CC109157442	15ft
CC848817635	50 ft
CC848817643	150 ft

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.



Alarm Input Cables	
CC848890153	5 ft.
CC848865980	15ft
CC848817651	50 ft
CC848817668	150 ft

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

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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 **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:

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

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

Clear these alarms: Via Controller Display: follow the menu path;

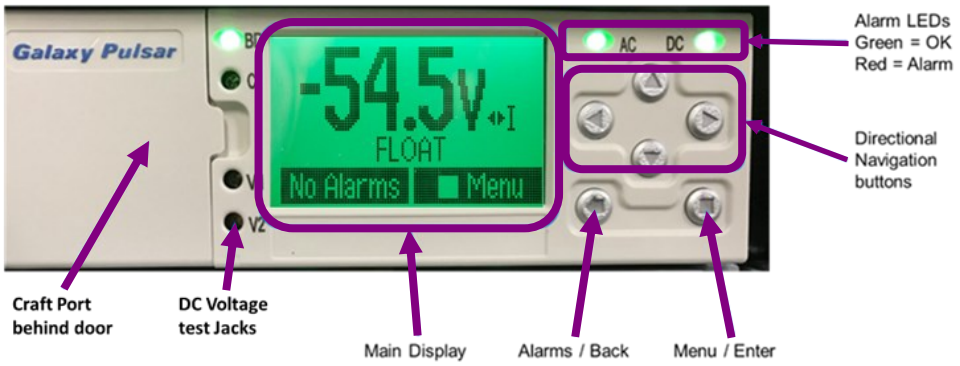
Menu > Control/Operation > Clear Events or Uninstall Equipment.

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

Menu > Configuration > System Settings and Menu > Configuration > Batteries.

Front Panel

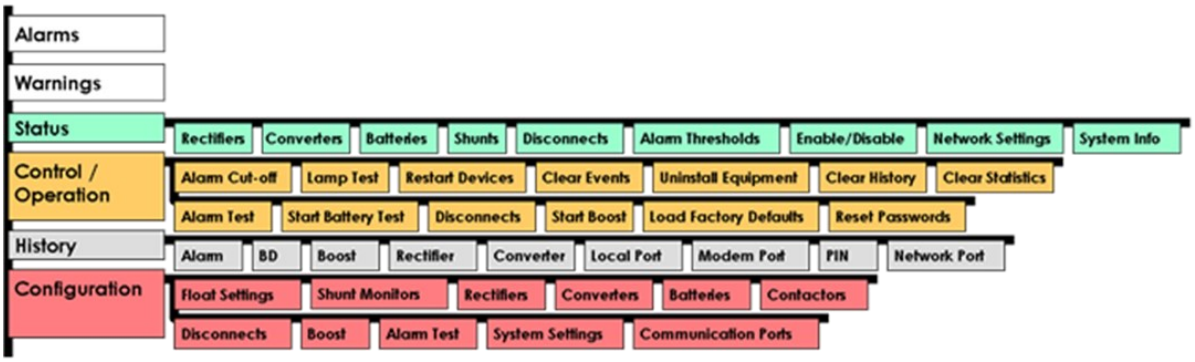
View and change system parameters from the factory defaults via the front panel:



Controller Front Panel Display and Controls

The main menu can be accessed using the Menu / Enter button

The basic menu structure for navigation is shown below:



Front Panel Menu Structure - Overview

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Information: Controller Basic Operation (continued)

All user configurable parameters can be accessed from the front panel, however user convenience and visibility is enhanced by access through the LAN port using the built-in web pages.

Configuration > Communication Ports > Network Settings > DHCP > mode, to SERVER

Once the LAN port is configured as a server, the laptop can be connected to the LAN port, using a standard ethernet cable. Use a standard web browser to access the controller web pages at default IP address: 192.168.2.1

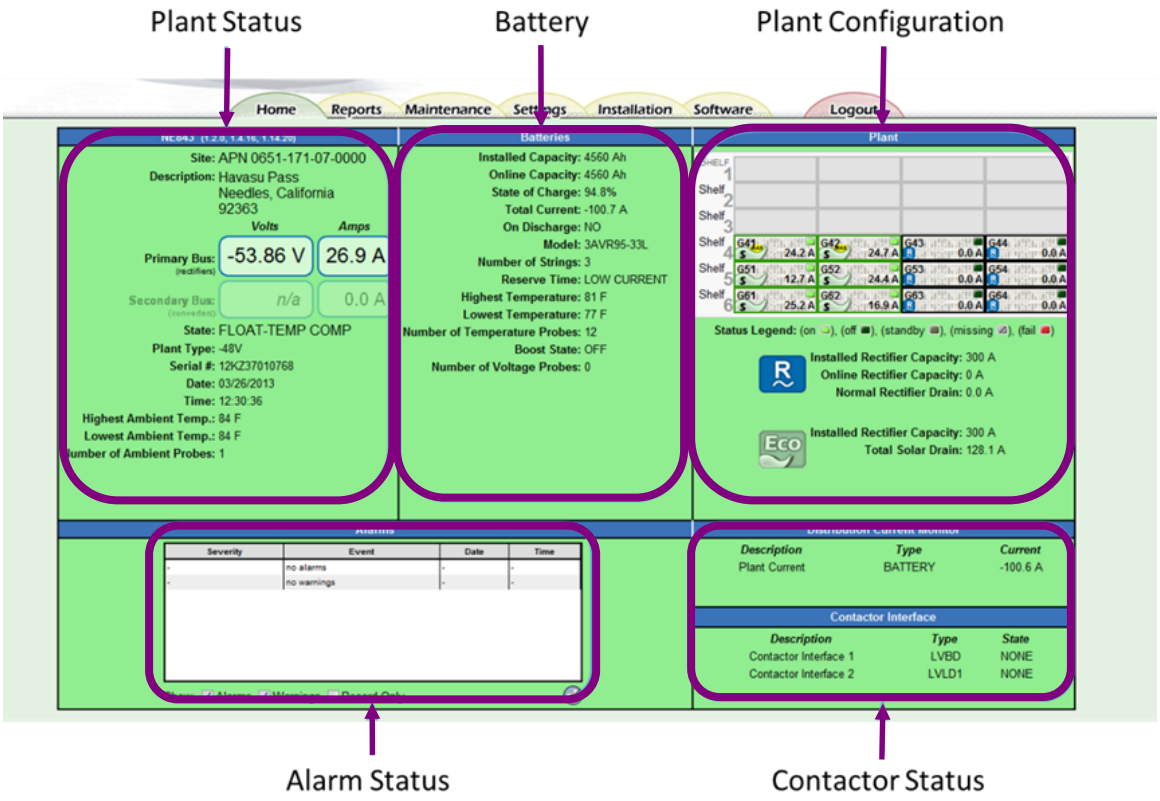
Warning: Do not connect LAN port to a network when set to Server mode. Set the controller LAN port to Client or Static before connecting to the network. Static is the factory default setting and the typical setting for most networks.

Once connected to the controller web server a log on screen should be visible:



Logon Screen - web view

Factory Default password is “Administrator” and should be used for initial logon. It is highly recommended that one of the first activities should be to change the default password(s).



Home Page – Web View

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Information: Rectifier & Converters

Rectifier		Ordering Code	Input	DC Output		Recommended AC Breaker			3-phase	
				Volts	amps	AC1 (2 rectifiers per feed)	AC3	AC5H	AC6	AC7
R ECO	NE050ECO48ATEZ	150025074	200-400Vac	48V	50A	40A	20A	20A	40A	20A
			100-120Vac	48V	22A	40A	20A	20A		
			60-300Vdc, 11A max	48V	50A					
R	NE075AC48ATEZ	CC109163473	200-277Vac	48V	75/50A[1]	40A	20A	30A	50A	30A
			100-120Vac	48V	25A	40A	20A	20A		
	NE050AC48ATEZ	CC109158878	208-240Vac	48V	50A	40A	20A	20A	40A	20A
			100-120Vac	48V	22A	40A	20A	20A		
	NE050AC48A	CC109124913	200-240Vac	48V	50A	40A	20A	20A	40A	20A

[1]75A with AC5H, AC6 & AC7 and AC6, 50A with AC1 and AC3.

Converters		Ordering Code	Input DC		Output DC	
			Voltage	Current	Voltage	Current
C	NE075DC24A	CC109142881	48Vdc	54A Max	24Vdc	75A
C	NE075DC12AZ	150046488	48Vdc	24A Max	12Vdc	75A

Information: Rectifier Status LEDs



Power Unit LEDs	
LED	Description
Norm	Normal – Green
ACF	AC Input Failure – Red
Fail	Rectifier Failure – Red
Fail	Com. Failure – Blinking Red

Information: Converter Status LEDs



Power Unit LEDs	
LED	Description
Norm	Normal – Green
In F	DC Input Failure – Red
Fail	Converter Failure – Red
Fail	Com. Failure – Blinking Red

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Specifications and Application

- Specifications and ordering information are in the Infinity S Ordering Guide available at **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).
- 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	Galaxy Pulsar Plus Product Manual
	Infinity S Ordering Guide (aka product line brochure)

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Change History (excludes grammar & clarifications)

Revision	Date	Description of the change
3.0	12/27/2021	Updated as per template, Updated step 8 and added AC5H AC input.
4.0	05/26/2022	Corrected labeling in figure on page 4
4.1	12/06/2023	Updated as per OmniOn template

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OmniOn Power Inc.
601 Shiloh Rd.
Plano, TX USA

omnionpower.com

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