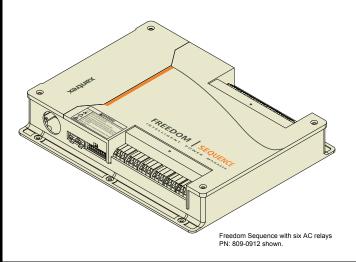
#### Smart choice for power



## **Freedom Sequence**

Intelligent Power Manager

## xantrex

## **Installation Guide**

PNs: 809-0912 809-0913



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#### **Document Part Number**

975-0594-01-01

#### **Product Numbers**

809-0912 (Six AC relays) 809-0913 (Four AC relays)

#### **Contact Information**

## **About This Guide**

#### Purpose

The purpose of this Installation Guide is to provide procedures for installing and wiring the Freedom Sequence Intelligent Power Manager.

#### Scope

The guide provides installation and mounting instructions, as well as information on wiring the power manager.

It does not provide details about certain components that can be attached to the power manager. You need to consult the individual component's owner's guide for this information.

#### Audience

The guide is intended for qualified installers who need to install and mount any unit model of the Freedom Sequence Intelligent Power Manager. The installer should have knowledge and experience in installing electrical equipment, knowledge of the applicable installation codes, and awareness of the hazards involved in performing electrical work and how to reduce those hazards. A qualified technician or electrician has this knowledge and experience.

#### **Conventions Used**

The following conventions are used in this guide.

## 

#### STATEMENT OF HAZARD

Contains statements of avoidance or strict compliance.

Failure to follow these instructions will result in death or serious injury.

## 

#### STATEMENT OF HAZARD

Contains statements of avoidance or strict compliance.

Failure to follow these instructions can result in death or serious injury.

## 

#### STATEMENT OF HAZARD

Contains statements of avoidance or strict compliance.

Failure to follow these instructions can result in minor or moderate injury.

## CAUTION

#### STATEMENT OF HAZARD

Contains statements of avoidance or strict compliance.

Failure to follow these instructions can damage the unit and/or damage other equipment.

**IMPORTANT:** These notes describe things which are important for you to know, however, they are not as serious as a danger, warning, or caution.

#### **Related Information**

You can find more information about Xantrex Technology USA Inc. as well as its products and services at **www.xantrex.com**.



The product marking on the left when found imprinted on electrical and electronic units and appliances means that you are to refer to this guide for cautions and warnings.

## **IMPORTANT:** READ AND SAVE THIS INSTALLATION GUIDE FOR FUTURE REFERENCE.

This chapter contains important safety instructions when operating the Freedom Sequence Intelligent Power Manager. Each time, before using the Freedom Sequence Intelligent Power Manager, READ ALL instructions and cautionary markings on or provided with the power manager and all appropriate sections of this guide.

**NOTE:** The Freedom Sequence Intelligent Power Manager contains no userserviceable parts. For obtaining service, see "Warranty and Return Information" on the Owner's Guide for guidance.

**NOTE:** The Freedom Sequence Intelligent Power Manager must be provided with grounding conductors connected to the AC input/output connections.

## 

#### ELECTRICAL SHOCK HAZARD

- Do not expose the power manager to rain, snow, spray, or bilge water.
- Do not operate the power manager if it has received a sharp blow, been dropped, has cracks or openings in the enclosure, or will not close, or otherwise damaged in any other way.
- Do not disassemble the power manager.
- Disconnect both AC and DC power from the power manager before attempting any maintenance or cleaning or working on any circuits connected to the power manager. See note below.
- Do not operate the power manager with damaged or substandard wiring. Make sure that all wiring is in good condition and is not undersized. Use copper conductors only.

## Failure to follow these instructions will result in death or serious injury.

**NOTE:** The power manager has no on/off switch. Circuits are always live when DC and AC input are present.

## 

#### **EXPLOSION HAZARD**

Do not work in the vicinity of lead-acid batteries. Batteries generate explosive gases during normal operation. See note below.

## Failure to follow these instructions will result in death or serious injury.

**NOTE:** Follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of the battery. Review cautionary markings on these products and on the engine.

## 

#### PERSONAL INJURY HAZARD

This power manager is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the power manager.

## Failure to follow these instructions can result in death or serious injury.

#### **Precautions When Placing the Power Manager**

## 

#### **EXPLOSION HAZARD**

Do not place the power manager in machinery space or in areas containing gasoline tanks or fittings in which ignition-protected equipment is required.

This equipment is intended for installation in accordance with the National Electrical Code, NFPA 70.

Failure to follow these instructions will result in death or serious injury.

## 

#### ELECTRICAL SHOCK HAZARD

To reduce the risk of fire or electric shock, install in a controlled environment relatively free of contaminants.

Failure to follow these instructions can result in death or serious injury.

**NOTE:** A controlled environment is an environment that is relatively free of solid airborne particulates, liquid, and/or gaseous elements. A controlled environment may also be provided by means of a totally closed, gasketed enclosure or the equivalent.

## CAUTION

#### **RISK OF DAMAGE TO THE POWER MANAGER**

- Never place the Freedom Sequence Intelligent Power Manager unit directly above batteries; gases from a battery will corrode and damage the power manager.
- Do not place a battery on top of the power manager.

Failure to follow these instructions can damage the unit and/or damage other equipment.

## FCC Information to the User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## CAUTION

Unauthorized changes or modifications to the equipment could void the user's authority to operate the equipment.

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## Introduction

The Xantrex Freedom Sequence Intelligent Power Manager is a fully integrated power management system (sometimes referred to as EMS or energy management system) that provides automatic power and load management for use in recreational vehicles (RV) while receiving power from a generator or shore power. The Freedom Sequence power manager optimizes the available current capacity from an AC electrical source to power as many connected AC loads as possible. It makes decisions on which loads get power based on a priority base set by the installer<sup>1</sup>.

## **Standard Features**

- Manage power for single or split-phase AC sources up to 50 amps including 15-, 20-, 30-, and 50-amp shore and generator power sources.

- Sources. Fully user configurable AC and DC load management system using the Xanbus System Control Panel (SCP). Monitor current draw and On/Off status for each AC load circuit, including the current draw from the main AC source (shore or generator power). Has six AC relays (PN: 809-0912) or four AC relays (PN: 809-0913) via the AC relay terminal blocks which can control AC load circuits rated up to 15 amps each. Four DC relays (via the DC auxiliary connector port) which can control external DC circuits based on Battery Voltage. These four DC relays can also be used to control external AC circuits<sup>2</sup>. Circuit level override from load-shed<sup>3</sup> and priority swapping<sup>4</sup> directly ٠

- Circuit level override from load-shed<sup>3</sup> and priority swapping<sup>4</sup>, directly accessible via the SCP
- Sequential engaging of AC loads for generator soft-start that eliminates heavy inrush demand.
- Seamless integration with Freedom SW Inverter/Chargers to provide • charger derating, automatic inverter assist, and auto-detect generator run conditions and reset breaker rating from Shore to Generator breaker rating.

<sup>1.</sup> The installer should have knowledge and experience in installing electrical equipment, knowledge of the applicable installation codes, and awareness of the hazards involved in performing electrical work and how to reduce those hazards. A qualified technician or electrician has this knowledge and experience.

<sup>2.</sup>External AC circuits are AC loads that are not directly controlled through the Freedom Sequence's available six (or four) AC relays.

<sup>3.</sup>Load shedding is defined as cutting power to loads that are drawing current from the system in order to avoid an overload condition.

<sup>4.</sup> Priority swapping is defined as the automatic prioritization of loads when one load has been assigned a different priority number.

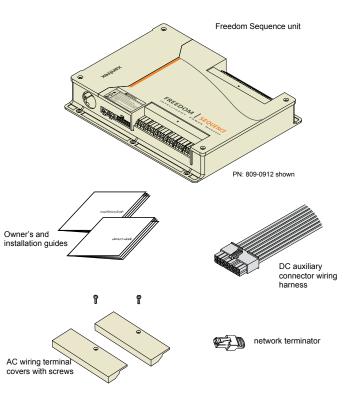
#### Introduction

## **Material List**

The Freedom Sequence ships with the following items:

- one Freedom Sequence unit,
- owner's and installation guides,
- DC auxiliary connector wiring harness,
- AC wiring terminal covers with screws, and
- a Xanbus network terminator.

**NOTE:** Keep the carton and packing material in case you need to return the power manager for servicing.



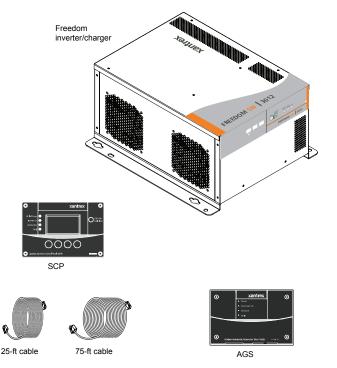
## Compatible Products and Accessories<sup>1</sup>

Product/Accessory	Product Number
Freedom SW Series Inverter/Charger	815-2012, 815-2024 (2kW) 815-3012, 815-3024 (3kW)
(12 and 24-volt systems)	815-3012, 815-3024 (3kW)
Xanbus System Control Panel (SCP)	809-0921
Xanbus Automatic Generator Start (AGS)	809-0915
25-ft network cable for SCP	809-0940
75-ft network cable for SCP	809-0942

The Xanbus System Control Panel (SCP) enables you to monitor and control all the power components of the Freedom Sequence power manager from a single easy-to-use interface.

The Xanbus Automatic Generator Start (AGS) is a panel and a control module system that provides automatic activation for your generator. If the AGS is present in the Xanbus network, the power manager does not need the Generator Run signal (also known as switched B+ signal) to be hardwired to the generator for it to receive generator-run conditions.

Together with the Freedom SW Series Inverter/Charger, the power manager provides advanced power optimization features of interactive charger derating and automatic inverter assist to provide additional power to support high peak power demands.



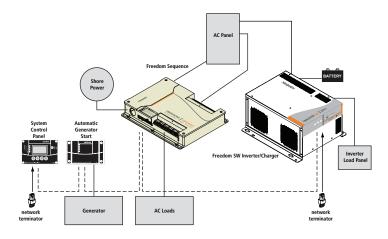
This guide for use by qualified installers only

<sup>1.</sup>For an updated list, visit www.xantrex.com.

#### Introduction

#### Xanbus System

The Xanbus system includes the Freedom SW Series Inverter/Charger and other Xanbus-enabled devices. The inverter/charger is the device in a Xanbus system that typically provides network power—500 mA at 12 volts DC. When Freedom Sequence is present in the network, it can also provide the power for the whole Xanbus network. All of the Xanbus-enabled devices, such as Freedom Sequence, the SCP, and the AGS are able to communicate their settings and activity to each other. See Figure 1.



The Xanbus-enabled designation (see below) means that this product works on a Xanbus network. Xanbus-enabled products are:

- Simple to operate and routine tasks are automated,
- Controlled by software that eliminates analog signalling errors,
- Less susceptible to interference and line loss, and
- Upgradable through new software releases.

#### xanbus ENABLED

For detailed instructions and a complete list of Xanbus-enabled devices, visit **www.xantrex.com**.

Figure 1 Typical Xanbus System Diagram

## **Features**

This section describes the different parts of the Freedom Sequence.

## **Ports and Terminals**

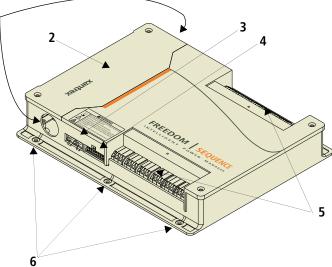


Figure 2 Freedom Sequence Ports and Terminals

1	AC Main section contains the current and voltage sensors to monitor the AC source and provides the pass-through wiring from a transfer switch to the vehicle's main distribution pan
2	AC Main panel cover (removable for easy access)
3	<b>Xanbus interface ports</b> are used to connect Xanbus-enable devices including the SCP, AGS and Freedom SW.
4	<b>DC auxiliary connector port</b> contains the terminals for fou DC relays, Generator Run (B+) signal, and DC power.
5	AC relay three-wire terminal blocks provide six (or four) Cage Clamp® connectors for connecting AC load circuits. O load circuit corresponds to one AC relay. The relays are bidirectional meaning, there are no designated AC IN and A OUT terminals.
6	<b>Mounting holes</b> are used for mounting the Freedom Sequen unit. There are six holes provided on the unit.

#### ELECTRICAL SHOCK HAZARD

Disconnect all DC and AC power before opening the AC Main panel.

Failure to follow these instructions will result in death or serious injury.

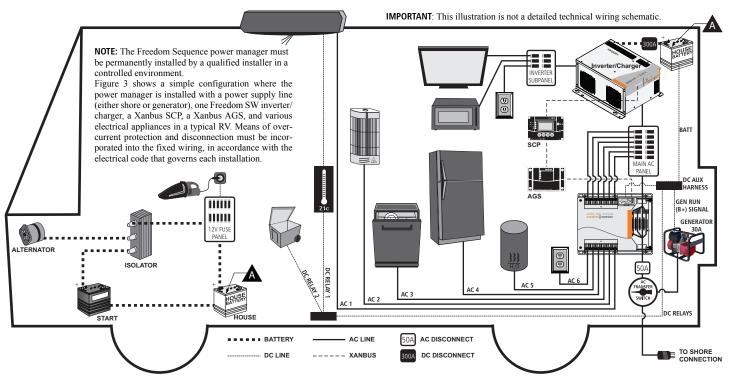


Figure 3 Typical RV Wiring Diagram With Freedom Sequence (six-circuit model shown)

## **Tools and Materials**

#### Tools

3.5mm blade long neck screwdriver for opening the AC relay cage clamp connectors

Phillips screwdriver for removing and replacing the AC Main panel cover

power drill/screwdriver

drill bit set for drilling pilot holes

wire stripper

Materials	Qty
three-conductor plus bare ground AC Main cable – four-wire cable (see recommendations on page 9)	as needed
two-conductor plus bare ground AC Relay cable – three-wire cable (see recommendations on page 9)	as needed
wires to splice correspondingly with the wires on the supplied DC auxiliary connector wiring harness	as needed
AC Main cable one-inch metal strain relief	2
M5 Phillips pan head mounting screw or drywall anchor or plasterboard plug. Select the best mounting material suited to the type of surface.	6
M5 washers at 10mm OD max	6

## Location

Install the power manager in a location that meets the following requirements:

Condition	Requirement
Dry	The power manager must be installed in a dry location not subject to moisture especially rain, spray, or splashing bilge water.
Clean	The power manager should not be exposed to metal filings or any other form of contamination.
Cool	The ambient air temperature should be between $0 - 50 \text{ °C} (32 - 122 \text{ °F})$ for best performance.
Controlled Environment	By definition, a controlled environment is clean and can be provided by means of a totally closed, gasketed enclosure or the equivalent.

## 

#### **EXPLOSION HAZARD**

Do not place the power manager in machinery space or in areas containing gasoline tanks or fittings in which ignition-protected equipment is required.

Failure to follow these instructions will result in death or serious injury.

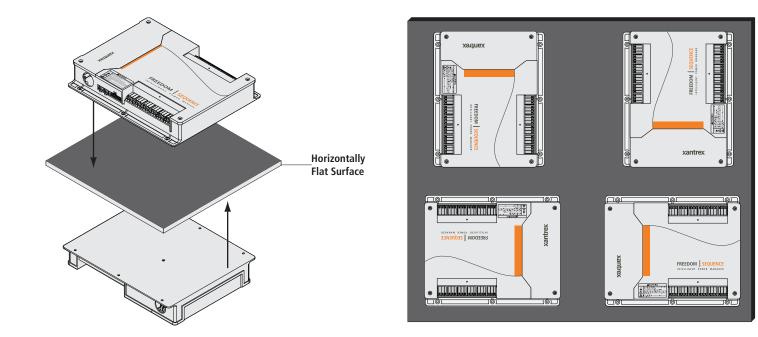


Figure 4 Mounting Orientations (Deck or Ceiling)

Figure 5 Mounting Orientations (Wall)

## **Wiring Requirements**

## 

#### ELECTRICAL SHOCK AND FIRE HAZARD

Do not operate the power manager with damaged or substandard wiring. Make sure that all wiring is in good condition and is not undersized. A qualified installer must be used. See notes below.

Failure to follow these instructions will result in death or serious injury.

#### NOTES:

- Wiring and fuse sizes are governed by electrical codes and standards. Different requirements apply in different countries and to different types of installations, for example, boat, home or RV. It is the responsibility of the installer to ensure that each installation complies with all applicable codes and standards.
- Ensure that wires and fuses or breakered disconnects are correctly sized.
- According to the National Electrical Code, branch-circuit conductors shall have an ampacity not less than the maximum load to be served. "Where a branch circuit supplies continuous loads or any combination of continuous and non-continuous loads, the minimum branch-circuit conductor size, before the application of any adjustment or correction factors, shall have an allowable ampacity not less than the noncontinuous load plus 125% of the continuous load." However, an exception to this rule is permitted "where the assembly, including the overcurrent protection device (OCPD) protecting the branch circuit is

listed for operation at 100 percent of its rating, the ampere rating of the overcurrent device shall be permitted to be not less than the sum of the continuous load plus the noncontinuous load." It is important to note that every appliance (also referred to as "the assembly") is listed for operation at 100 percent of its rating as well as the circuit breaker ("the OCPD"). The additional current flowing into the appliances will cause additional heat. If the appliance or circuit breaker has not been listed for 100% application, temperatures may easily become excessive for the conductors and insulation.

In recognition of this exception, the Freedom Sequence allows you the soption to disable the Breaker Derating by changing the default Enabled to Disabled in the Advanced Settings screen.

**IMPORTANT:** Appliances and circuit breakers that are 100% rated will have a listing on their product label similar to "Suitable For Use On Single-Phase ~AC circuits. For 100% Application."

## **AC Breakers**

#### Table 1 Recommended AC Breaker Sizes

	Туре	Rating
AC Main circuit	toggle style AC circuit breaker	50 A (max)
Branch circuit	toggle style AC circuit breaker	15 A (max)

#### Features

#### AC Wiring

#### Table 2 Recommended AC Cabling and Wiring Sizes

	Туре	AWG	Rating
AC Main	Romex® Copper SE Cable 3- conductor with bare ground	6 – 10 each wire	50 A
AC Relay/s	Romex® Copper Branch Circuit Cable 2-conductor with bare ground	12 each wire	15 A

#### **DC Wiring**

#### Table 3 Recommended DC Wiring Sizes

	Туре	AWG	Rating
DC wire/s	stranded and color-matched with the wire/s on the DC auxiliary connector wiring harness (as shown)	18	5 A
16 10 10 10 10 10 10 10 10 10 10 10 10 10		Color         Func           1         Orange         N/O*           2         Brown         Comr           3         Blue         N/C*           4         Orange         N/O*           5         Brown         Comr           6         Blue         N/C*           7         Orange         N/O*           8         Brown         Comr           9         Blue         N/C*           10         Orange         N/O*	non kt <sup>A</sup>
1 SAQ	* Normally Ope ** Normally Clos	11         Brown         Comr           12         Blue         N/C*           13         Yellow         B+ se           14         Brown         Comr           15         Black         NEG           16         Red         POS -	* *

## **Installing the Freedom Sequence**

## **Overview**

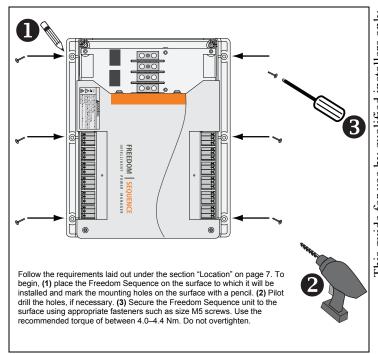
Be sure to read the safety guidelines and pay attention to all cautions and warnings throughout the installation procedure. The installer is responsible for ensuring compliance with the installation codes for your particular application.

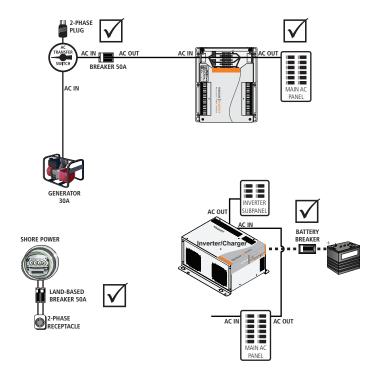
## **Installation Sequence**

To make the installation quick and easy, Xantrex recommends that the installation tasks be performed in the following sequence:

- 1. Mount the Freedom Sequence.
- 2. Connect the AC Main wires.
- 3. Connect the AC Relay wires.
- 4. Connect the DC Relay wires.
- 5. Interconnect the Xanbus components.
- 6. Turn on the SCP and bring the Freedom Sequence to Safe Mode.
- 7. Configure Freedom Sequence via the SCP.
- 8. Turn on the RV power system.

## **Step 1: Mounting the Freedom Sequence**





## 

#### ELECTRICAL SHOCK HAZARD

Turn off switches and open all disconnects including circuit panel breakers prior to wiring or servicing.

Failure to follow these instructions will result in death or serious injury.

## 

#### FIRE AND ELECTRICAL HAZARD

- · Install in a controlled environment relatively free of contaminants.
- AC input wiring must be provided with a reliably grounded conductor.
- Compartments, raceways, and the like, for routing and stowage of conductors connected in the field shall not contain rough, sharp, or moving parts that may damage conductor insulation.
- Use only copper conductors, properly sized for the main 50-amp rated AC input branch circuit, and the 15-amp rated AC relay branch circuits.
- All AC relay circuits must have a common disconnect and be connected to the same pole of the disconnect (i.e. Main AC Panel).

## Failure to follow these instructions can result in death or serious injury.

#### Figure 6 Switch and Disconnect Locations

#### Installing the Freedom Sequence

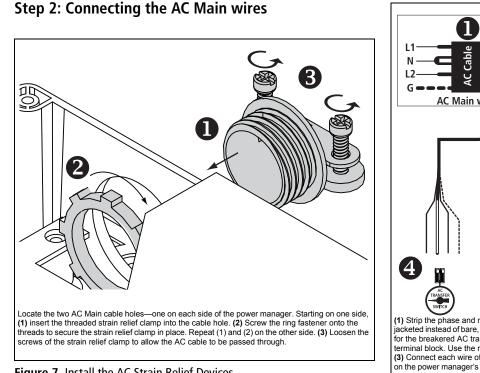


Figure 7 Install the AC Strain Relief Devices

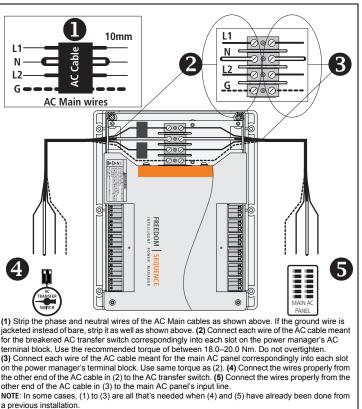
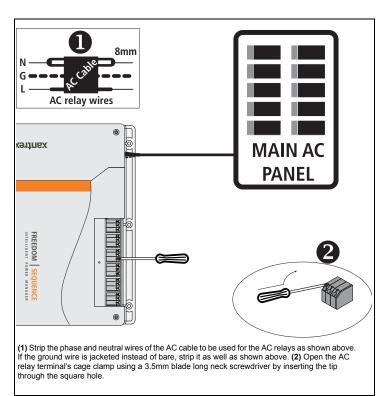
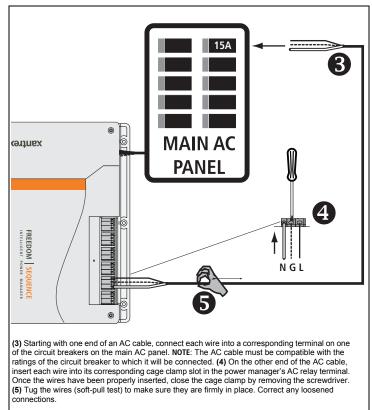
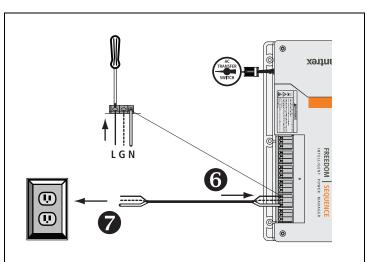


Figure 8 Connect the Input and Output AC Main Wires

#### Step 3: Connecting the AC Relay Wires

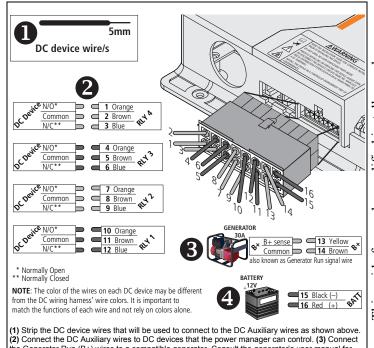






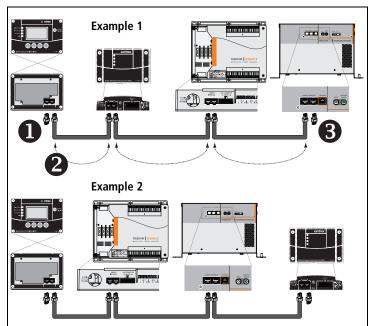
(6) Use procedure (2) to open the cage clamp in the power manager's opposite AC relay terminal. Starting with another AC cable, insert each wire into its corresponding cage clamp slot. Once the wires have been properly inserted, close the cage clamp by removing the screwdriver. (7) On the other end of the AC cable, connect each wire into a corresponding terminal on the AC outlet. The outlet can be used to connect an electrical appliance. A disconnect device is not needed nor necessary.

## Step 4: Connecting the DC Relay wires



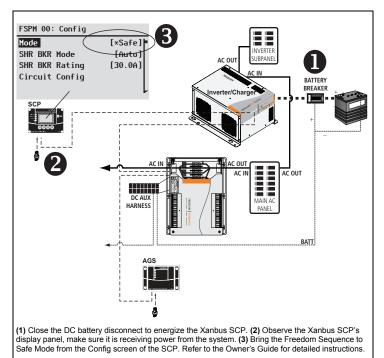
(2) Connect the DC Auxiliary wires to DC devices that the power manager can control. (3) Connect the Generator Run (B+) wires to a compatible generator. Consult the generator's user manual for more information. (4) Connect the BATT wires to a 12V battery. Connect red to the positive (+) terminal first and then black to the negative (-) terminal.

#### Step 5: Interconnecting the Xanbus Components



(1) Pick the Xanbus SCP as the first Xanbus component in the network. Plug the SCP's left Xanbus network port with a network terminator. (2) Using a CAT5 network cable, plug the SCP's right Xanbus network port with one end of the network cable. Plug the other end of the network cable into the next component's left Xanbus network port. Daisy-chain the other components as shown. (3) Terminate the daisy chain by plugging the right Xanbus network port of the last component with a network terminator. NOTE: In a Xanbus network, the components' arrangement is immaterial (see Example 2). The only condition is that the first and last component need to be properly terminated.

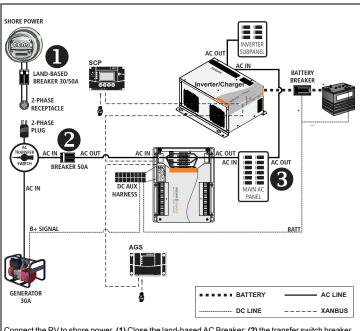
#### Step 6: Powering up the SCP



#### **Step 7: Configuring Freedom Sequence**

Use the Freedom Sequence Owner's Guide to configure basic and advanced settings. To modify advanced settings on each circuit, refer to the Owner's Guide as well.

#### Step 8: Powering up the RV System



Connect the RV to shore power. (1) Close the land-based AC Breaker; (2) the transfer switch breaker and; (3) all breakers in the main AC panel.

Lastly, bring the Freedom Sequence out of Safe Mode from the Config screen of the SCP to Operating Mode. Refer to the Owner's Guide for detailed instructions.

Freedom Sequence SCP Menu Map

1     ACLoad1     0n 3.0h       1     1 Last Shed Current     6.0h       1     1 Last Shed Current     6.0h       2     ACLoad2     0n 2.5h       3     ACLoad3     0n 2.5h       3     ACLoad4     0n 2.5h       3     ACLoad5     0n 2.5h       3     ACLoad4     0n 2.3h       4     Accoad4     0n 2.3h       5     Accoad5     0n 3.0h       6     Accoad4     0n 3.0h       6     Accoad4     0n 3.0h       6     Accoad4     0n 3.0h       6     Accoad5     0n 3.0h       6     Accoad4     0n 3.0h       6     Accoad4     0n 3.0h       7     Accoad5     0n 3.0h       6     Accoad6     0n 3.0h       7     Last Shed Current     1.0h       8     Accoad3     0n N/Ah       8     Docoad3     0n N/Ah       9     Last Shed Current     N/Ah       9     Last Shed Current     N/Ah       9     DcLoad3     0n N/Ah       9     DcLoad4     0n N/Ah       9     DcLoad4     0n N/Ah       9     DcLoad4     0n N/Ah       9     DcLoad4     0n N/Ah <th></th> <th>FSPI</th> <th>FSPM 00: Circuit Status</th> <th>N</th> <th></th> <th>FSPM 00:</th> <th>FSPM 00: Circuit Config</th> <th>Config</th> <th></th>		FSPI	FSPM 00: Circuit Status	N		FSPM 00:	FSPM 00: Circuit Config	Config	
1       Load Shed Current       6.00         1       1       Load Shed Current       6.00         1       1       Load Shed Current       6.00         1       1       Load Shed Current       7.00         1       2       Last Shed Current       7.00         2       1       Load Shed Current       1.00         2       1       Load Shed Current       1.00         3       1       Load Shed Current       1.00         1       1       Load Shed Current       1.01         1       1	ns octeett	-		1 3.0AF		1 ACLoad	=		
1       2 & 6(Load 2)       0n 4.56       1 (Load Shed (Erabled))         3       3 & 6(Load 2)       0n 2.56       0n 2.56       2 & 6(Load 2)       2 & 123         0.06       3 & 12.0W       3 & 12.0W       3 & 6(Load 2)       2 & 133         12.0W       4 & 6CLoad 2       0n 3.06       3 & 6(Load 2)       1 & 133         12.0W       5 & 6(Load 5)       0n 3.06       3 & 6(Load 3)       1 & 133         12.0W       5 & 6(Load 5)       0n 3.06       3 & 6(Load 3)       1 & 133         12.0W       5 & 6(Load 5)       0n 3.06       3 & 6(Load 5)       1 & 133         12.0W       6 & 6(Load 5)       0 & 0.06       1 & 106       1 & 106         12.0W       6 & 100       3 & 600       1 & 106       1 & 106         12.0W       6 & 100       3 & 600       1 & 106       1 & 106         12.0W       6 & 100       1 & 106       1 & 106       1 & 106         12.0W       1 & 100       1 & 100       1 & 106       1 & 106         12.0W       1 & 100       1 & 100       1 & 106       1 & 106         12.0W       1 & 100       1 & 100       1 & 106       1 & 106         12 & 100       1 & 100       1 & 100       1 & 106<		- -		6.0A		1 Priori	ťu	[1]	10
12.00     2 Actoad2     2 Actoad2       12.00     3 Actoad3     2 Actoad3       0.00     12.00     3 Actoad3     12.01       12.00     3 Actoad3     3 Actoad3     12.03       0.00     3 Actoad3     3 Actoad3     13.13       0.00     3 Actoad3     0 0.3.76     3 Actoad3     13.13       12.00     5 Actoad5     0 0.3.76     3 Actoad3     13.14       12.00     5 Actoad5     0 0.3.76     3 Actoad3     13.14       12.00     5 Actoad5     0 0.3.76     3 Actoad5     13.14       1 Actoad5     1 0 0.3.06     1 Actoad5     14.104     14.104       1 Actoad5     1 1 0.01     1 Actoad5     15.14     16.14       1 Actoad5     0 0.04     1 Actoad5     16.14       1 Actoad5     0 0.04     1 Actoad5     16.14       1 Actoad5     1 0 0.010ad4     10     17     10.04       1 Actoad5     1 0 0.010ad4     10     17     10.04       1 Actoad5     1 0 0.010ad4     10     10     10       1 Actoad5     1 0 0.010ad4     10     10     10       1 Actoad5     1 0 0.010ad4     10     10     10       1 Actoad5     10     10     10     10    <	Г	_		14.5A			hed	[Enabled]	11
Shoref     3 actoad3     0n 2.5s     0n 2.5s     2 rejority     1 [and Shed Current     2 (b)       0.00     12.00     3 last She Current     2.00     3 rood Shed     [Enabled]       12.00     4 Actoad5     0n 3.37     3 rood Shed     [Enabled]       12.00     5 actoad5     0n 3.30     3 rood Shed     [Enabled]       12.00     5 actoad5     0n 3.30     4 rood Shed     [Enabled]       5 last Shed Current     0 n Ard     5 rood Shed     [Enabled]       7 bctoad5     0 n Nrd     5 rood Shed     [Enabled]       9 bctoad3     0 n Nrd     5 rood Shed     [Enabled]       9 bctoad3     0 n Nrd     5 rood Shed     [Enabled]       9 bctoad3     0 n Nrd     5 rood Shed     [Enabled]       9 bctoad3     0 n Nrd     6 rood Shed     [Enabled]       10 bctoad3     0 n Nrd     7 roority     [5]       10 bctoad3     10 last Shed Current     Nrd     7 roority       10 bctoad3     10 last Shed Current     Nrd     7 roority       10 bctoad3     10 last Shed     [Enabled]     [7]       10 bctoad3     10 last Shed     [Enabled]       10 bctoad3     10 roority     10 roority       10 bctoad3     10 last ority     10 roority	1-Ph	_	ast Shed Current	4.0A			2		
0.001     3 Last Shed Current     2.56     2 Load Shed     Enabled       12.0V     5 Actoad5     0n 3.76     3 Priority     13       12.0V     5 Actoad5     0n 3.76     3 Priority     13       12.0V     5 Actoad5     0n 3.76     3 Priority     14       12.0V     5 Actoad5     0n 3.66     4 Priority     14       12.0V     5 Actoad5     0n 3.66     4 Priority     14       12.0V     5 Actoad5     0n 3.66     16     16       12.0V     5 Actoad5     0n 3.66     16     16       12.0V     1 Last Shed Current     N/A     5 Priority     16       12.0V     1 Last Shed Current     N/A     5 Priority     16       10 Dctoad2     0n N/A     5 Priority     16     17       10 Dctoad4     0n N/A     5 Priority     16     17       10 Dctoad4     10 Dctoad4     16     17       10 Dctoad4     10 Dctoad4     10     17       10 Dctoad4     10 Dctoad4     16     17       10 Dctoad4     10 Dctoad4     10     17       10 Dctoad4     10 Dctoad4     10     17       10 Dctoad4     10 Dctoad4     10     17       10 Dctoad4     10 Dctoad4	Shore1						ty	[2]	
0.001 12.001 5 last She Current 5 ACLoad5 5 Last She Current 7 DCLoad1 7 DCLoad1 7 DCLoad5 7 DCLoad5 8 PCLoad5 8 PCLoad5 8 PCLoad5 7 DCLoad5 8 PCLoad5 8 PCLoad5 8 PCLoad5 9 PCLOAD	0.04	_	ast Shed Current	2.5A			hed	[Enabled]	
12.00       1 Last She Current       2.00       3 Priority       1 Last She Current       1 Last She	0.00						E		
5 & AcLoad5       0n 3.7A       31 Load Shed [Enabled]         5 Least Shed Current 1.0N       0n N/A       7 Priority       [14]         7 DcLoad1       0n N/A       5 Friority       [15]         7 DcLoad1       0n N/A       5 Friority       [15]         7 DcLoad1       0n N/A       5 Friority       [16]         7 DcLoad2       0n N/A       5 Friority       [16]         8 DcLoad2       0n N/A       5 Friority       [16]         9 Last Shed Current       N/A       7 Priority       [16]         9 Last Shed Current       N/A       7 Priority       [17]         9 Last Shed Current       N/A       6 Friends       [17]         10 DcLoad3       0 n N/A       6 Friends       [17]         Mode       [0perating]       6 Priority       [16]         SHR BKR Node       [10 Load Shed       [Enabled]       7 Priority         SHR BKR Node       [10 Pcload3       9 Priority       [10]         SHR BKR Node       [10 Pcload4       [10]       9 Priority       [10]         SHR BKR Node       [10 Pcload4       [10]       9 Priority       [10]         SHR BKR Node       [10 Pcload4       [10]       9 Priority       [10]	12.0V	_	ast She Current	2.0A			ťy	[3]	
5 Last Shed Current 1.00       0n 3.00       4 Priority       4 Priority       4         6 AcLoad6       0n 3.00       6 AcLoad5       5 AcLoad5       6 Acload5       4         7 DcLoad1       0n NA       5 AcLoad5       5 AcLoad5       6 Acload6       5 AcLoad5       4         7 DcLoad1       0n NA       5 AcLoad5       5 AcLoad5       5 AcLoad5       5 AcLoad5       4         8 Last Shed Current       NA       5 AcLoad5       5 AcLoad5 <td></td> <td></td> <td></td> <td>n 3.7A</td> <th></th> <td></td> <td>hed</td> <td>[Enabled]</td> <td></td>				n 3.7A			hed	[Enabled]	
6 AcLoad6     0n 3.0h     4 Priority     [4]     14 Frad Shed [Enabled]       7 Least Shed Current     0n N/h     5 Priority     [5]       8 DCLoad2     0n N/h     5 Priority     [5]       8 DCLoad2     0n N/h     5 Priority     [5]       9 Least Shed Current     N/h     5 Priority     [5]       9 Least Shed Current     N/h     5 Priority     [6]       9 Least Shed Current     N/h     5 Priority     [6]       9 Least Shed Current     N/h     6 AcLoad5     [6]       10 DCLoad4     0n N/h     6 Priority     [6]       10 DCLoad4     [0] Least Shed Current     N/h       Mode     [0] Least Shed Current     N/h       No     [0] Least Shed Current     [0]       No     [0] Least Shed     [10]       Sitt Bidt Rating     [0] DCLoad4     [10]       Bart No     [10] DCLoad4     [10]       Bart No     [10] DCLoad4		_	ast Shed Current	1.0A			4		
6 Last Shed Current       0.N.MA       7 Load Shed [Enabled]         7 Dist Shed Current       0.N.MA       5 Ficuad5       5 Actoad5         8 Last Shed Current       N.MA       5 Ficuad5       5 Actoad5         8 Last Shed Current       N.MA       5 Ficuad5       5 Actoad5         9 Dicload3       0 N.MA       5 Ficurity       [5]         9 Dicload3       0 N.MA       6 Actoad6       [6]         9 Dicload3       0 N.MA       10 Last Shed Current       N/A         10 Dicload3       0 N.MA       10 East Shed Current       N/A         10 Dicload3       0 N.MA       10 East Shed Current       N/A         10 Dicload4       0 N.MA       10 East Shed Current       N/A         10 Dicload4       0 N.MA       10 East Shed Current       N/A         Mode       [0 Dicload3       10 N.P.       10 Picload4       [10]         Stread Shed       [Enabled]       10 Picload3       [10]       [10]         Mode       [0 Dicload3       10 Picload3       [10]       [10]         Stread Shed       [Enabled]       9 Ecoad5 Shed       [10]       [10]         Restore Defaults       [0 Dicload3       9 Ecoad5 Shed       [10]       [10]         <	inde			1 3.0A			ťy	[4]	
7       7       7       7       7       6       ACLoad5       5       ACLoad5       5       10       N/A       5       7       10       10       N/A       5       10       N/A       5       10 <t< td=""><td>-</td><td></td><td>ast Shed Current</td><td>4.0A</td><th></th><td></td><td>hed</td><td>[Enabled]</td><td></td></t<>	-		ast Shed Current	4.0A			hed	[Enabled]	
7 Last Shed Current       NA       5 Friority       [5]       5 Load Shed [Enabled]         8 DCLoad2       Dn NAA       9 DCLoad2       Dn NAA       5 Load Shed [Enabled]         9 Last Shed Current       NA       0 NAA       0 NAA       0 NAA         9 Last Shed Current       NAA       0 NAA       0 NAA       0 NAA         10 DCLoad4       Dn NAA       0 NAA       0 ACLoad6       [6 ALLoad6       [7]         10 DCLoad4       Dn NAA       [9 Load Shed [Enabled]       7 Priority       [7]         Node       [0 Advanced Settings       8 Priority       [8]       [9]       [9]         Node       [10 DCLoad3       9 PLOad3       [9]       [9]       [9]         Node       [FSPM 00: Advanced Settings       9 PLOad3       [9]       [9]         Sitt Barantool       [10 DCLoad4       [10]       [10]       [10]         Restore Defaults       9 PCLoad3       9 PLOad3       [9]       [9]         Restore Defaults       9 PCLoad3       [10]       [10]       [10]         Restore Defaults       9 PCLoad3       [10]       [10]       [10]         Restore Defaults       10       9 PCLoad3       [10]       [10]         Res				In N/A			5		
8 DCLoad2       On N/A       5 Load Shed [Enabled]         9 Last She Current N/A       0n N/A       0n Shed [Enabled]         9 Last She Current N/A       0 n N/A       0n Shed [Enabled]         9 Last She Current N/A       0 n N/A       0 n Shed [Enabled]         10 DCLoad4       0n N/A       0 n Shed [Enabled]         10 DCLoad4       0 n N/A       0 n Shed [Enabled]         11 Last Shed Current N/A       0 n Shed [Enabled]       0 n Shed [Enabled]         Node       [Auto]       7 Priority       [A]         SHR BKR Mode       [Auto]       7 Priority       [A]         SHR BKR Mode       [Auto]       2 DCLoad2       [B]         SHR BKR Rating       [30.0h]       9 DCLoad2       [B]         Sectore Defaults       9 DCLoad3       [A]       1 DCLoad3         Restore Defaults       9 DCLoad3       [B]       [B]         Br Rating       [30.0h]       9 DCLoad3       [B]         Gen BKR Rating       [B]       1 D PCLoad4       [F]         Br Rating       [B]       1 D PCLoad4       [B]         Gen BKR Rating       [B]       0 D CLoad3       [B]         Gen BKR Rating       [B]       0 D CLoad4       [Enabled]				N/A			ť	[5]	
8 Last Shed Current N/A 9 DCLoad3       0n N/A 9 DCLoad3       0n N/A 10 DCLoad3       0n N/A 10 DCLoad3       0n N/A 10 DCLoad3       0n N/A 10 DCLoad6       0n N/A 6 PCLoad6       10 DCLoad6       10 DCLoad5       10 DCLoad6       10 DCLoad7       10 DCLoad7       10 DCLoad3       10 DCLoad5       10 DCLoad2       10 DCLoad3       10 DCLoad3       10 DCLoad3       10 DCLoad2       10 DCLoad3       10 DCLoad3       10 DCLoad2       10 DCLoad3       10	s shown in					5 Load S	hed	[Enabled]	
9 DCLoad3     On N/A       9 Last She Current N/A     0n N/A       10 DCLoad4     0n N/A       10 Last Shed Current N/A     6 RCLoad6       10 Last Shed Current N/A     6 Priority       10 Last Shed Current N/A     6 Load Shed Enabled]       10 Last Shed Current N/A     7 Load Shed Enabled]       10 Last She Node     [auto]       11 DCLoad3     [auto]       12 Restore Defaults     9 PcLoad3       13 Restore Defaults     9 PcLoad3       14 Rating     [Enabled]       15 RK Rating     [Enabled]       16 Restore Defaults     9 PcLoad3       17 Load Shed     [Enabled]       18 Rating     [ao.0h]       19 Load Shed     [Enabled]       10 Priority     10 Load Shed       10 Priority     10 Load Shed       11 DCood4     10 Pcload4       12 Nom DC Voltage     [12.0h]       12 Nom DC Voltage     [12.0h]       13 Corruit3     10 Pciority <td>pical of the</td> <td></td> <td>ast Shed Current</td> <td>N/A</td> <th></th> <td>Cont</td> <td></td> <td></td> <td></td>	pical of the		ast Shed Current	N/A		Cont			
9 Last She Current NA 10 DCLoad4 0n NA 10 DCLoad4 0n NA 10 DCLoad4 0n NA 10 Last Shed Current NA 10 Last Shed Current NA 10 Last Shed Current NA Nde [0perating] Nde [17] Nde [10 DCLoad2 R Priority [10] Nde [10 DCLoad3 Nde [10 DCLoad3 Nde [10 DCLoad3 Nde [12 00] Nde [10 0CLoad3 Nde [10 0CL	Sequence								
10 DCLoad4     Dn N/A     6 ACLoad6     6 Priority     [6]       10 Last Shed Current N/A     0 N/A     6 Priority     [6]       FSPM 00: Config     7 Docad1     [7]       Mode     [0perating]     7 Docad2     [6]       SHR BKR Mode     [10perating]     7 Docad2     [8]       SHR BKR Mode     [10perating]     7 Docad2     [8]       SHR BKR Rating     [30.0h]     9 Priority     [8]       Circuit Config     9 Docad2     [8]     [9]       SHR Rating     [10 DcLoad4     [10]       GEN BKR Rating     [30.0h]     [9]     [9]       GEN BKR Rating     [30.0h]     [9]     [9]       GEN BKR Rating     [10 DcLoad4     [10]       GEN BKR Rating     [10 DcLoad4     [10]       GEN BKR Rating     [10 Pciority     [10]       GEN BKR Rating     [10 Pciority <td></td> <td></td> <td></td> <td>N/A</td> <th></th> <td>FSPM 00:</td> <td>Circuit</td> <td>Config</td> <td></td>				N/A		FSPM 00:	Circuit	Config	
10 Last Shed Current NA     6 Priority     [6 Piority     [6]       SPR BKR Rating     6 Load Shed     [Enabled]       Mode     [0perating]     7 Load Shed     [Enabled]       SHR BKR Mating     [30.0h]     8 Priority     [7]       SHR BKR Rating     [30.0h]     8 Priority     [8]       SHR BKR Rating     [30.0h]     9 Priority     [8]       SHR BKR Rating     [30.0h]     9 Priority     [9]       SKR Rating     [10 DCLoad3     [9]       EFN MOR     [10 DCLoad3     [9]       BKR Rating     [10 DCLoad3     [9]       GEN BKR Rating     [10 DCLoad3     [9]       GEN BKR Rating     [10 DCLoad3     [9]       GEN BKR Rating     [10 DCLoad4     [10]       GEN BKR Rating     [10 DCLoad4     [10]       GEN BKR Rating     [10 DCLoad4     [10]       GEN BKR Rating     [110 DCLoad4     [10]       GEN BKR Rating     [12.0v]     [10 DCLoad4       GEN BKR Rating     [110 DCLoad4     [10]       GEN BKR Rating     [12.0v]     [10 DCLoad4       GEN BKR Rating     [10 DCLoad4     [10]       GEN BKR Rating     [12.0v]     [10 DCLoad4       RC Disq Priority     [11 DCLoad5     [10]       RC Disq Prio	ircuit Status	10					9		
FSPM 00: Config       F Priority       [Enabled]         Mode       [Operating]       7 CLoad       [Enabled]         Mode       [Ioperating]       7 Priority       [I]         SHR BKR Mode       [Auto]       8 Priority       [R]         SHR BKR Mode       [Auto]       8 Priority       [B]         SHR BKR Mode       [Auto]       8 Priority       [B]         SHR BKR Mode       [Auto]       9 PcLoad2       [B]         SHR BKR Rating       [30.0h]       9 PcLoad3       [B]         Restore Defaults       9 PcLoad3       [B]       [B]         BKR Rating       [30.0h]       9 PcLoad3       [B]         GEN BKR Rating       [Bod Shed       [Enabled]         GEN BKR Rating       [Bod Shed       [Enabled]         GEN BKR Rating       [10 Pcload3       [10]         GEN BKR Rating       [0]       [10 Pcload4       [10]         GEN BKR Rating       [12.0V]       [10 Pcload5       [10]         GEN BKR Rating       [12.0V]       [10 Pcload5       [10]         GEN BKR Rating       [12.0V]       [10 Pcload5       [10]         Mom DC Voltage       [12.0V]       [10 Pcload5       [10]         RC Lin	IL Freedori	10	ed Current				ţī	[6]	
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[Operating]]          • Load Shed     [Enabled]       [30.0A]          • E          8 Priority     [8]       [30.0A]          • E          8 Priority     [8]       ed Settings          9 DCLoad2     [8]       ed Settings          9 Priority     [9]       ed Settings          9 DCLoad3          8 Priority     [9]       ed Settings          9 DCLoad4          10 DCLoad4          10 IO       au          10 DScc1          10 DCLoad4          10 IO       au          10 DScc3          10 DCLoad4          10 IO       au          10 DScc4          10 DCLoad4          10 IO       au          10 DSc4          10 DSc4          10 IO       10 Priority          10 Priority          10 IO          10 IO       112.0V]          10 Priority          10 IO          10 IO       112.0V]          10 Priority          10 IO          10 IO       Iu          112.0V]          10 Priority          10 IO       Iu          11 IO          10 Priority          10 IO       Iu          11 IO          10 Priority          10 Priority       Iu          10 Pr	_;	- FSPI	M 00: Config				F.		
[Auto]     B DLCoad2     [8]       [30.0h]     B Priority     [8]       ts     9 Priority     [10]       9 Priority     [Enabled]       9 Priority     [Enabled]       9 Priority     [Enabled]       10 PLoad4     [10]       10 PLoad4     [10]       11 Priority     [Enabled]       12 Priority     [10]       11 Priority     [10]       12 Priority     [10]       13 Obsec     [12]       14     [12.04]       15     [12.04]       11     [12.04]       12     [12.04]       13     [1		Mod		ting]			ped	[Enabled]	
[30.04]     B Priority     B Priority     B Priority       [s.o.04]     Load Shed     [Enabled]       9 DCLoad3     9 Priority     [9]       9 Priority     [D DCLoad3     [9]       9 Priority     [D DCLoad3     [9]       9 Priority     [10 DCLoad4     [10]       9 Ucad Shed     [Enabled]       10 Priority     [I0]       11 Ucad Shed     [Enabled]       12 Ucad Shed     [Enabled]       13 Ucad Shed     [Enabled]       14 Ucad Shed     [I0]       15 Priority     [Crcuit Type       16 Cond1]     [Crcuit Type       17 Ucad Shed     [I0.29]       18 CLine     [I1.04]       9 Ucad Shed     [I0.29]       10 Crcuit Type     [ACLoad1]       11 Ucad Shed     [I0.29]       12 Priority     [I0.29]       13 Ucad Start     [Disce]       14 Ucad Start     [Disce]       15 Priority     [I0.29]       16 Crcuit Type     [I0.29]       17 Ucad Start     [Disce]       18 DCLO241		SHR		Autol			Z	1	
ts     8 Load Shed [Enabled]       ts     9 DCLoad3       ed Settings     9 PCLoad4       ed Settings     9 DCLoad4       [au 6 Settings     10 DCLoad4       [au 7 Settings     10 DCLoad4       [au 1 [0sec]]     10 DCLoad4       [au 1 [0sec]]     10 Priority       [au 1 [0sec]]     10 DCLoad4       [au 1 [0sec]]     10 DCLoad4       [au 1 [0sec]]     10 Priority       [au 1 [0sec]]     10 Circuit Name       [au 1 [0sec]]     10 Circuit Inge       [au 1 [0sec]]     10 Setting       [au 1 [0sec]]     10 Circuit Inge       [au 1 [0sec]]     10 Sett [nout0ut1]       [au 1 [0se]]     10 Sett [nout0ut1]       [au 1 [0se]]     10 Sett [nout0ut1]       [au 1 [noig]     10 Sett [nout0ut1]		a Hy		1 00 0			ţŋ	[8]	
45     9 DCLoad3       45     9 Priority     [9]       60     5 Priority     [10]       10     DCLoad4     [10]       11     DCLoad4     [10]       123     10     Priority     [10]       130     0A3     10     Priority     [10]       130     0A3     10     Priority     [10]       131     [10 Load Shed     [Enabled]       131     [10 sec]     10     [Load Shed       131     [10 sec]     10     [Coad4]       131     [10 sec]     10     [Coad4]       131     [10 sec]     10     [Coad4]       131     [12 w]     10     [Coad4]       131     [12 w]     [Coad5 shed     [Enabled]       132     [Coad5 shed     [Enabled]       133     [12 w]     [Coad5 shed     [Enabled]       134     [12 w]     [Coad5 shed     [Enabled]       135     [Coad5 shed     [Enabled]       136     [Circuit Type     [ACInputOut]       137     [Coad5 shed     [Inov]       138     [Circuit Type     [ACInputOut]       133     [Circuit Type     [ACInputOut]       144     [Circuit Type     [ACInputOut]			Config		1		hed	[Enabled]	
ts     9     Priority     [9]       ed Settings     10     DCLoad4     [9]       ed Settings     10     DCLoad4     [10]       ignowl     10     DCLoad5hed     [10]       ignowl     10     DCLoad5hed     [10]       ignowl     10     DCLoad5hed     [10]       ignowl     10     Load Shed     [Enabled]       ignowl     10     Load Shed     [Enabled]       ignowl     [2]     10     Ecoud4       ignowl     [2]     10     Ecoud4       ignowl     [2]     10     Ecoud4       ignowl     [2]     Ecoud4     [2]       ignowl     [2]     Ec		5					8		
ed Settings     9 Load Shed Shed [Enabled]       ed Settings     10 DCLoad4       [au 0 bccoad4     10 Priority       [au 10sec]     10 Priority       [au 10sec]     10 Ccruit Name       [au 10sec]     10 Crout I Name       [au 10sec]     10 Cruit I Name       [au 10sec]     10 Ccruit Name       [au 10sec]     10 Cruit I Name       [au 10sec]     10 Ccruit I Set I (10 Set I (10 Set I (15 SetI (15 Set I (15 SetI		Res					2 7	[0]	
9 Load Shed     10 DCLoad4     [10]       ed Settings     10 PCLoad4     [10]       ig0.0A]     10 PCLoad4     [10]       ig1.0A]     10 PCLoad4     [10]       ig1.0A]     10 PCLoad4     [10]       ig1.0A]     10 PCLoad4     [10]       ig1.0A]     [12]     10 PCLoad4     [10]       ig1.0A]     [12]     10     [10]       ig1.12.0V]     [12.0V]     [12]     [12]       ig1.12.0V]     [12.0V]     [12]     [12]       ig1.12.0V]     [12]     [12]     [12]       ig1.12.0V]     [12]     [12]     [12]       ig1.12.0V]     [12]     [12]     [12]       ig1.0A     [12]     [12]     [12]       ig1.0A     [12]     [12]     [12]       ig1.0A     [12]     [10]     [10]       ig1.0A     [12]     [10]     [10]       ig1.0A     [10]     [10]       ig2.1A     [10] </td <td></td> <td></td> <td></td> <td>·</td> <th></th> <td></td> <td>5</td> <td></td> <td></td>				·			5		
10 DCLoad4     10 DCLoad4       [[a0,04]]						9 Load S	hed	[Enabled]	
ed Settings     10 Priority     [10]       [30.0h]     [30.0h]     [10     [10.cod Shed [Enabled]]       ay     [0scc]     [0     [0       lay     [10scc]     [10     [10       up     [112.0v]     [10     [10       ty     [12.0v]     [11     [12.0v]       resonance     [12.0v]     [12.0v]       resonance     [10     [10       resonance     [10     [10       resonance     [11     [12]       resonance     [10     [10       Reconnect MRGN     [10       Batt Low Trig Set [10.vy]       Batt High Trig Set [14.sv]						10 DCLoa	d4	1	
[Enabled]     10 Load Shed [Enabled]       130.0A]     5       130.0A]     5       131     10scl       132     10scl       133     10scl       134     10scl       135     5       131     10scl       132     10scl       133     10scl       134     10scl       135     5       135     5       135     5       136     5       137     5       138     10scl       139     10scl       131     10scl       132     10scl       132     10scl       133     10scl       133     10scl       134     10scl       135     10scl       135     10scl       137     10scl       138     10scl       133     10scl       134     10scl       135     10scl       135     10scl       136     10scl       136     10scl       137     10scl       138     10scl       136     10scl       137     10scl		- FSPI	M 00: Advanced Sett	ings			·ity	[10]	
130.061		ЯХВ		H poly	7		Shed	[Enabled]	
au [0sec]		EN L	tina	00.01	5				
ty [105ect] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2]		U L L		Ocor 1	2				
tu [2]E FSPM 00: Circuit 1 [12.0V]E Circuit Name [ACLoad1]- Load Shed [Enabled]- Circuit Type [ACInputOut]- Circuit Type [ACInputOut]- Priority [2]- Reconnect MRGN [102]- Batt Low Trig Set [10.2V]- Batt Low Trig Set [10.2V]- Batt High Trig Set [14.5V]-				Ocar 1					
[12.0V] E Circuit Name [ACLoad1]- Load Shed [Enabled] Circuit Type [ACInputOut]- AC Line [ILine1]- Priority [12]- Reconnect MKGN [102]- Batt Low Trig Set [10.5V]- Batt Low Trig Set [14.5V]- Batt High Trig Set [14.5V]-		J d	-	[22-2		- FSPM 00:	Circuit	-	
LIZ.UVI			ŗ.						1
0     0     Shed     Leabled       1     Cicuit Type [ACInputOut]       AC Line     [Line]       AC Line     [Line]       Priority     [2]       Priority     [10x]       Batt Low Trig Set [10.87]       Batt High Trig Set [14.87]				1. 10.2	<b>م</b>	Circuit	Name	[ACLoad1]	
Circuit Type [ACInputOut] Circuit Type [ACInputOut] Priority [12] Reconnect MRGN [102] GEN Soft Start [Disable] Batt Low Trig Set [10.87] Batt High Trig Set [14.87] Batt High Trig Set [14.87]						Load She		[Enabled]	2
AC Line     [Line1]       Priority     [Line1]       Priority     [2]       Reconnect MRGN     [102]       GEN Soft Start     [Disable]       Batt Low Trig Set     [10.V]       Batt High Trig CLr     [11.0V]       Batt High Trig Set     [14.SV]		5	CUITZ			Circuit		ACInput0ut ]-	U
Priority [2] Reconnect MRGN [102] GEN Soft Start [Disable] Batt Low Trig Set [10.5V] Batt High Trig Clr [14.0V] Batt High Trig Set [14.5V]		Cir	cuit3			AC Line		[Line1]-	ρ
Reconnect MRGN [102]		Cir	cuit4			Priority	_	[2]-	
GEN Soft Start [Disable] Batt Low Trig Set [10.SV] Batt Low Trig Clr [11.0V] Batt High Trig Clr [14.0V] Batt High Trig Set [14.SV]		Cir	cuit5			Reconnec	t MRGN	[10%]-	4
Batt Low Trig Set [10.5V]		Cir	cuit6			GEN Soft	Start	[Disable]	U I
Batt Low Trig Clr [11.0V] <sup></sup> Batt High Trig Clr [14.0V] <sup></sup> Batt High Trig Set [14.5V] <sub>4</sub>		Cir	cuit7			Batt Low	Iria Se		
Batt High Trig Cir [14.0V] Batt High Trig Set [14.5V]		Cir	cuit8			Batt Low	Tria Cl		
Batt High Trig Set [14.5V]H-		Cir	cuit9			Batt Hig	h Tria C		
		Cir	cuit10	Ţ		Batt Hic	h Tria S		×

## Settings

1       (#0perating] or [Standby]         2       (#huto] or [Hanual]         2       (#33.0) [5.0] to [59.0]         3       (#Enabled] or [Disabled]         4       (#30.0] [5.0] to [59.0]         5       (#30.0] [5.0] to [59.0]         6       (#30.0] [5.0] to [50.0]         6       (#30.0] [10 to [120]         7       (#10] [11 to [120]         8       (#11 to [60]         9       (#12.0V] or [24.0V]         6       (#11 to [10])         7       (#11 to [10])	LL[[*Enabled] Or [Disabled]
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NOTE: Circuit names can be up to ten characters long. Valid characters are from a to z, A to Z, 0 to 9, symbols '/ (forward slash) and '-(fityphen). Spaces, an underscore, and a period are not accepted symbols. Examples are "Hain-Arcc" and "Re Frigerat".

## Specifications

NOTE: Specifications are subject to change without prior notice.

#### **Physical Specifications**

Dimensions: L×W×H	254×355.6×63.5 mm (10×14×2.5 in.)
	· · · · ·
Weight	1 kg (2.2 lbs)
Xanbus ports	2
AC Main	1 set of split-phase pass-thru terminals
	(L1, N, L2, G) accessible by removing the
	AC Main panel cover
	AC Main parer cover
AC relay terminal	6 pairs I/O terminal blocks - one pair for
blocks	each AC relay (PN: 809-0912)
	4 pairs I/O terminal blocks - one pair for
	each AC relay (PN: 809-0913)
DC auxiliary	4 (3-pin connector for each DC relay)
connector port	1 (2-pin connector for one Generator Run signal)
	1 (2-pin connector for battery)

#### **Environmental Specifications**

**Operating range** 

–20 to 50 °C (– 4 to 122 °F)

#### **Electrical Specifications**

AC Main input vo	ltage	120/240 VAC single/split phase	
AC Main input cu	rrent	Split phase: 50 AAC per phase Dual in phase: 30 AAC per phase	
DC input voltage f battery source	from	12/24 VDC	;
AC relay input vo	ltage	120 VAC	5
AC relay input cu	rrent	15 AAC per circuit	
DC relays input ve	oltage	12/24 VDC	
DC relays input current		5 ADC per circuit	(
Regulatory Approvals			
Safety	UL 9	016, C22.2 No. 205	

Safety	UL 916, CSA C22.2 No. 205	This
EMC	FCC Part 15, Class B	-

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