

NetSure[™] -48 VDC to -58 VDC Output Converter Upgrade Kit

Installation Manual

Kit Specification Number: 60029556 For Use in Spec. Nos. 582127000ZZ003, 582127000ZZ011, and 582127000ZZ033 Power Systems The information contained in this document is subject to change without notice and may not be suitable for all applications. While every precaution has been taken to ensure the accuracy and completeness of this document, Vertiv assumes no responsibility and disclaims all liability for damages resulting from use of this information or for any errors or omissions. Refer to other local practices or building codes as applicable for the correct methods, tools, and materials to be used in performing procedures not specifically described in this document.

The products covered by this instruction manual are manufactured and/or sold by Vertiv. This document is the property of Vertiv and contains confidential and proprietary information owned by Vertiv. Any copying, use or disclosure of it without the written permission of Vertiv is strictly prohibited.

Names of companies and products are trademarks or registered trademarks of the respective companies. Any questions regarding usage of trademark names should be directed to the original manufacturer.

Technical Support Site

If you encounter any installation or operational issues with your product, check the pertinent section of this manual to see if the issue can be resolved by following outlined procedures.

Visit https://www.vertiv.com/en-us/support/ for additional assistance.

TABLE OF CONTENTS

Ad	monishı	nents Used in this Document	iv
Im	oortant	Safety Instructions	V
Saf	ety Admo	onishments Definitions	V
		egulatory Statements	
Déc	clarations	de Sécurité et de Réglementation	V
1	Vertiv™	' NetSure™ -48 VDC to -58 VDC Converter Upgrade Kit Installation Instructions	1
1.1	Kit Des	cription	1
1.2	Restrict	ions	1
1.3	Kit Con	tents	1
1.4	Tools a	nd Material Required	1
1.5	Installat	ion Procedure	2
1.6		Up the NCU Configuration	14
	1.6.1	NCU Version 1.1.80, or Later	14
	1.6.2	NCU Version 1.1.70, or Earlier ng a Backed-Up NCU Configuration	15
1.7	Reloadi	ng a Backed-Up NCU Configuration	17
	1.7.1	NCU Version 1.1.80, or Later	17
	1.7.2	NCU Version 11.70, or Earlier	18

Admonishments Used in this Document



DANGER! Warns of a hazard the reader *will* be exposed to that will *likely* result in death or serious injury if not avoided. (ANSI, OSHA)



WARNING! Warns of a potential hazard the reader **may** be exposed to that **could** result in death or serious injury if not avoided. This admonition is not used for situations that pose a risk only to equipment, software, data, or service. (ANSI)



CAUTION! Warns of a potential hazard the reader **may** be exposed to that **could** result in minor or moderate injury if not avoided. (ANSI, OSHA) This admonition is not used for situations that pose a risk only to equipment, data, or service, even if such use appears to be permitted in some of the applicable standards. (OSHA)



ALERT! Alerts the reader to an action that *must be avoided* in order to protect equipment, software, data, or service. (ISO)



ALERT! Alerts the reader to an action that *must be performed* in order to prevent equipment damage, software corruption, data loss, or service interruption. (ISO)



FIRE SAFETY! Informs the reader of fire safety information, reminders, precautions, or policies, or of the locations of fire-fighting and fire-safety equipment. (ISO)



SAFETY! Informs the reader of general safety information, reminders, precautions, or policies not related to a particular source of hazard or to fire safety. (ISO, ANSI, OSHA)

Important Safety Instructions

Safety Admonishments Definitions

Definitions of the safety admonishments used in this document are listed under "Admonishments Used in this Document" on page iv.

Safety and Regulatory Statements

Refer to Section 4154 (provided with your customer documentation) for Safety and Regulatory Statements.

Déclarations de Sécurité et de Réglementation

Reportez-vous à la Section 4154 (fourni avec les documents de votre client) pour les déclarations de sécurité et de réglementation.

This page intentionally left blank.

1 Vertiv[™] NetSure[™] -48 VDC to -58 VDC Converter Upgrade Kit Installation Instructions

1.1 Kit Description

These instructions provide a step-by-step procedure to field install this kit into Vertiv[™] NetSure[™] 721 Power Systems (Spec. Nos. 582127000ZZ003, 582127000ZZ011, and 582127000ZZ033). Installation of this kit in other equipment should not be attempted.

This kit provides components to change converter module mounting positions for Spec. No. 1C48241500 (-48 VDC to +24 VDC) converter modules to mounting positions for Spec. No. 1C48582000P3 (-48 VDC to -58 VDC) converter modules. It also provides components to change the breaker positions in the distribution cabinet from +24 VDC to -58 VDC. A backout procedure is also provided.

1.2 Restrictions

You MUST have an NCU Controller in your system to use the Spec. No. 1C48582000P3 (-48 VDC to -58 VDC) converter modules.

1.3 Kit Contents

Table 1.1 lists the items furnished as a part of this kit. Before installing the kit, check the items furnished against those listed to ensure that there are no shortages.

P/N	Description	Qty.
60028735	Use Only -58 VDC Converters Caution Label	12
60029476	Load Distribution Position Label (Reversible -58VDC or -48VDC)	10
60029477	Load Distribution Position Direction Arrow Label (-58VDC / -48VDC)	1
60027289	Rectifier/-58 VDC Converter Module Mounting Positions Label	2
60029577	Field Retrofitted for Use with -58 VDC Converters Nameplate Label	1
245126200	Quick Connect Terminal	1
60027773	Fuse Alarm Jumper Harness	1
237650200	Cable Tie	6
552423	Hook-and-Loop Fastener (factory attached to storage pouch)	2
150661	USB Memory Device with Storage Pouch (contains new NCU configuration and customer documentation)	1

Table 1.1 Kit Contents

1.4 Tools and Material Required

Table 1.2 lists the items required to install this kit.

Table 1.2 Tools and Material Required

Description
7/16" Socket
Small Flat-Blade Screwdriver
#2 Phillips Screwdriver
Torque Wrench
Spec. No. 1C48582000P3 (-48 VDC to -58 VDC) Converter Modules (as required)

1.5 Installation Procedure

THESE INSTRUCTIONS SHOULD BE READ THROUGH COMPLETELY BEFORE INSTALLING THE KIT.

The following is a step-by-step procedure to install the kit. The procedure has been written for ease of use and to minimize the possibility of contact with potentially hazardous energy. This procedure should be performed in the sequence given, and each step should be completely read and fully understood before performing that step. Observe all "Important Safety Instructions" starting on page v and also those presented in the following procedure. As each step of the procedure is completed, the box adjacent to the respective step should be checked. This will minimize the possibility of inadvertently skipping any steps. If the step is not required to be performed for your site, also check the box to indicate that it was read.

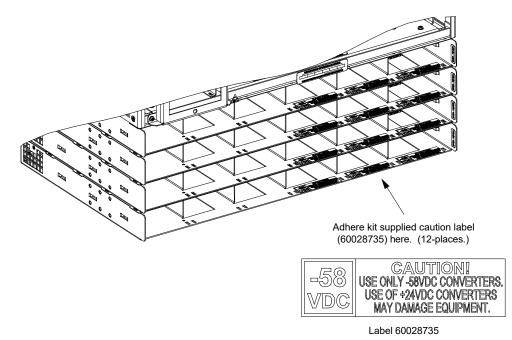
Procedure



DANGER! This procedure is performed on a LIVE system. Observe the "Important Safety Instructions" starting on page v and those listed in the power system manual.

- [] 1. Performing this procedure may activate external alarms. Do one of the following. If possible, disable these alarms. If these alarms cannot be easily disabled, notify the appropriate personnel to disregard any future alarms associated with this system while the procedure is being performed.
- [] 2. If your system has an ACU+ controller, replace it with an NCU controller (P/N 1M830DNA559246).
- [] 3. If your system ORIGINALLY had an NCU controller, refer to "Backing Up the NCU Configuration" on page 14 and backup the controller configuration.
- [] 4. Open the distribution cabinet door. Ensure that there are no loads/cables connected to the +24V circuit breaker positions. Upon completion of this upgrade, the system will no longer support +24V loads. If there are loads tied to the +24V positions, these will need to be removed and connected to a separate +24V system.
- [] 5. Remove all existing +24 VDC output converter modules from the module mounting shelves.
- [] 6. Clear the converter Communication and/or Lost alarms via the controller, if applicable. Via the controller front panel main screen, navigate to the Settings Icon in the upper left of the main screen and press the ENT key. Enter your username and password. Use the arrow keys to scroll to the Alarm Settings Menu and press the ENT key. Use the arrow keys to scroll to the ClrAllConvCommF and press the ENT key. Use the arrow keys to scroll to the Clear Conv Lost and press the ENT key.
- [] 7. Adhere kit supplied "Use Only -58 VDC Converters" caution label (60028735) to each of the twelve (12) module mounting slots shown in Figure 1.1. Orient the labels between the two (2) rectangular slots used for the converter module locking tabs. Align front edge of label to front edge of shelf. **Do Not** cover the converter module locking tab slots.

Figure 1.1 Adhere 60028735 Labels



- [] 8. Open the distribution cabinet front door.
- [] 9. Remove the shield from the top distribution panel by loosening the screws securing it and lifting the shield up and out (see Figure 1.2).

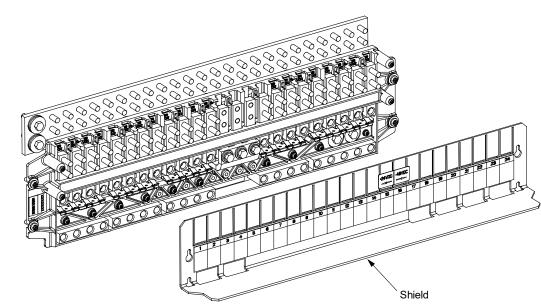


Figure 1.2 Remove Shield

- [] 10. Press in tabs to release distribution device lead busbars. See Figure 1.3.
- [] 11. Remove distribution device lead busbars. See Figure 1.3.

- [] 12. Remove +24 VDC distribution position labels and replace with -58 VDC distribution position labels (60029476) (6-places.). See Figure 1.3. Save the +24 VDC distribution position labels.
- [] 13. Reverse order steps to re-assemble. See Figure 1.3.
- [] 14. Adhere load distribution position direction arrow label (-58VDC / -48VDC) (60029477) over existing label (1-place). See Figure 1.3.

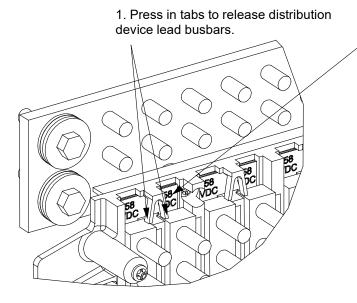


NOTE! If some of the -48V positions on the right side need to be converted to -58V positions, refer to your system manual to rework the distribution bus to convert the desired positions. The system needs to be shut down (not live) to do this if those positions are currently being used for load. If you convert some of the -48V positions to -58V positions, -58V labels are provided in the kit to mark these distribution positions for the new voltage.

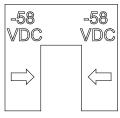


DANGER! If you convert any of the distribution positions on the right side (see Figure 1.3), you MUST shut down the system first if those positions are currently being used for load. Observe the "Important Safety Instructions" starting on page v and those listed in the power system manual.

Figure 1.3 Install 60029476 and 60029477 Labels



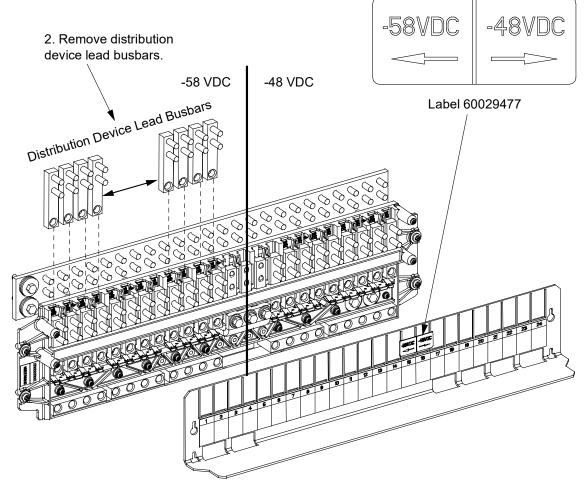
3. Remove +24 VDC distribution position label and replace with -58 VDC distribution position label (60029476). (6-places.)



Label 60029476

4. Reverse order steps to re-assemble.

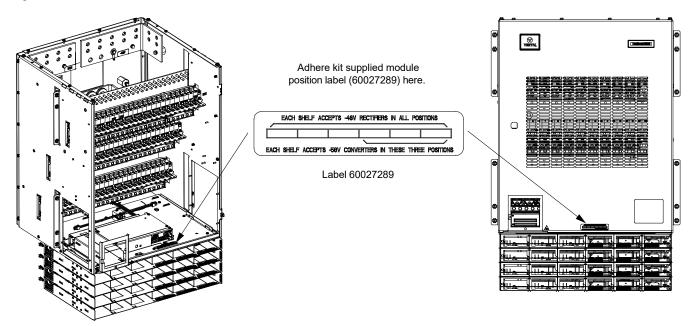
5. Adhere load distribution position direction arrow label (-58VDC / -48VDC) (60029477) over existing label. (1-place.)



[] 15. Replace the top distribution panel shield.

[] 16. Adhere one of the kit supplied module position labels (60027289) over the existing module position label on the front door. Adhere the second kit supplied module position label (60027289) over the existing module position label on the inside bottom of the distribution cabinet. See Figure 1.4.

Figure 1.4 Adhere 60027289 Label



[] 17. Adhere kit supplied nameplate label (60027891) above the existing nameplate label. See Figure 1.5.

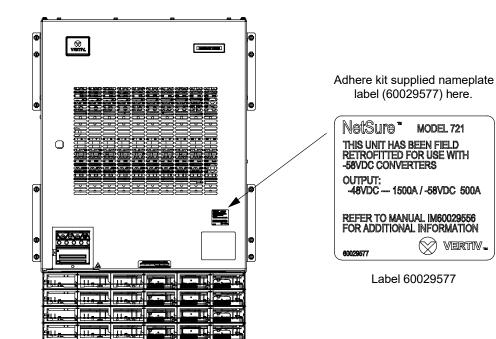
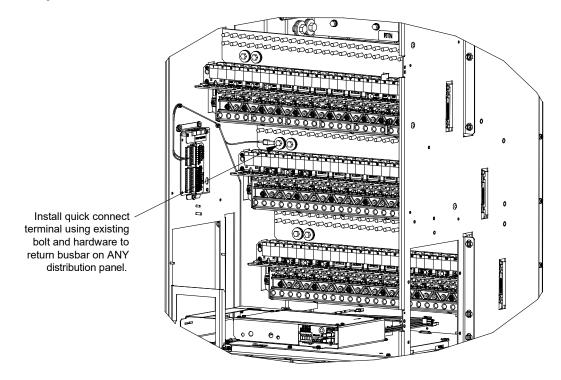


Figure 1.5 Adhere 60029577 Label

[] 18. Install kit supplied quick connect terminal (245126200) to return busbar on ANY distribution panel. Figure 1.6 shows the quick connect terminal attached to the middle distribution panel for reference. Install using the existing 1/4-20 bolt and hardware. Re-torque the 1/4-20 bolt to 84 in-lbs.

Figure 1.6 Installing Quick Connect Terminal



- [] 19. Remove the shield from the control shelf located at the bottom of the distribution cabinet. See Figure 1.7.
- [] 20. Disconnect the existing system wire harness from J1, J2, J3, and J4 on the system interface board (label connectors before removing). See Figure 1.7.

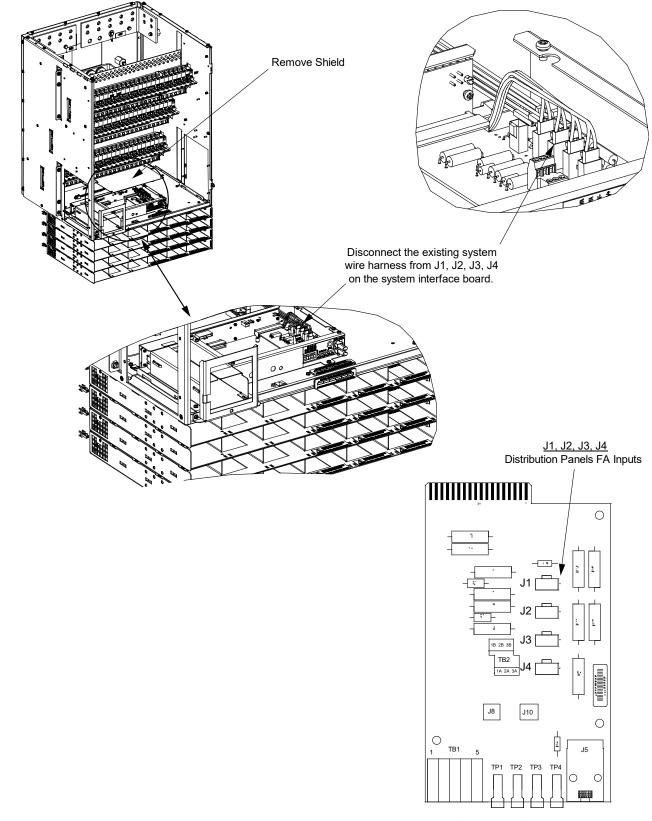


Figure 1.7 Disconnecting Existing System Wire Harness

System Interface Board

- [] 21. Install kit supplied fuse alarm jumper harness (60027773). See Figure 1.8 and Figure 1.9.
 - a) Route the fuse alarm jumper harness ORANGE (O) wire and connect to the IB2-1 controller interface board terminal J4-5 (DI6-). See Figure 1.8.
 - b) Route the fuse alarm jumper harness BLACK (BK) wire and connect to the IB2-1 controller interface board terminal J4-6 (DI6+). See Figure 1.8.
 - c) Connect the fuse alarm jumper harness to the quick connect terminal previously installed ANY distribution panel return busbar. Figure 1.9 shows the quick connect terminal on middle panel for reference.
 - d) Route the fuse alarm jumper harness from the quick connect terminal block down to the system interface board See Figure 1.9.
 - e) Plug the mating connectors (P1, P2, P3, P4) of the fuse alarm jumper harness into J1, J2, J3, and J4 on the system interface board. See Figure 1.9.
 - f) Plug the remaining connectors (J1, J2, J3, J4) on the fuse alarm jumper harness into the mating connector of the existing system wire harness (previously disconnected from J1, J2, J3, and J4 on system interface board in a previous step). See Figure 1.9.

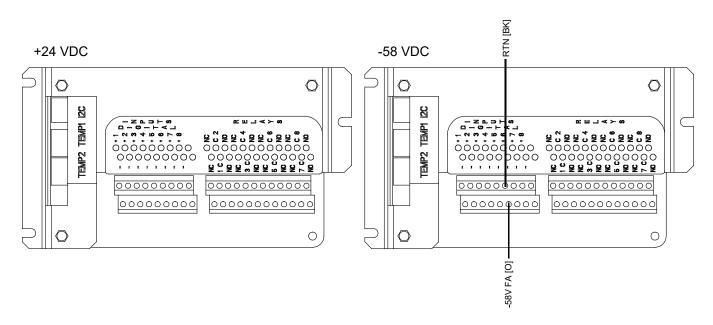
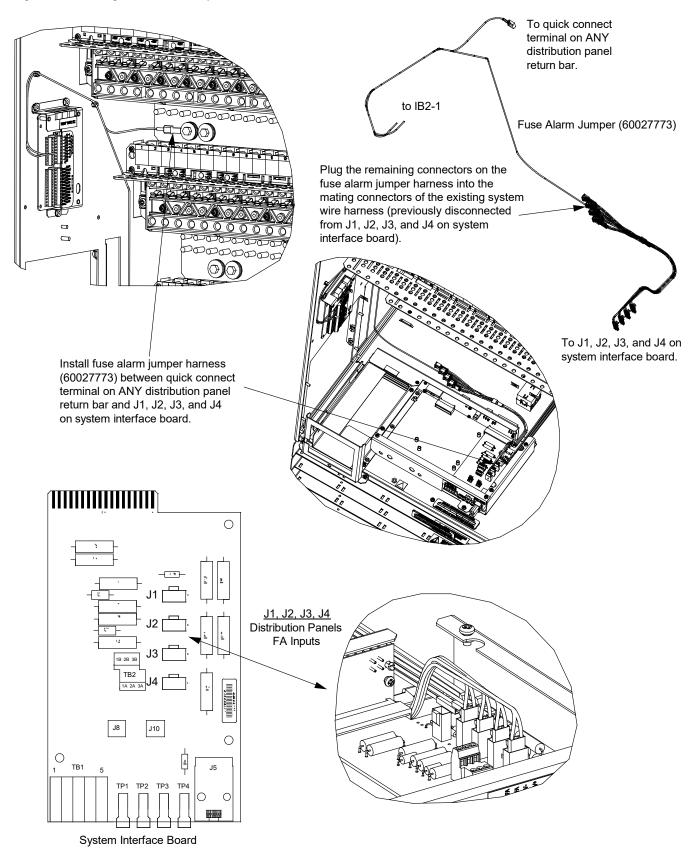


Figure 1.8 IB2-1 Controller Interface Board

Figure 1.9 Installing Fuse Alarm Jumper Harness



- [] 22. Re-install the shield to the control shelf located at the bottom of the distribution cabinet
- [] 23. Dress and secure the fuse alarm jumper harness with the kit supplied cable ties (237650200).
- [] 24. Update the controller configuration file as follows.
 - a) Copy the Application "All" package file located on the kit supplied USB drive to your computer. The name of the Application "All" Package file ends in .tar or .tar.gz.
 - b) In the NCU WEB interface, go to Advance Settings Menu / SW Maintenance Tab.
 - c) To download the Application "All" package into the NCU, you need to shut down the controller first. When you select the SW Maintenance Tab, click on the "Stop Controller" button.

Figure 1.10 Upload/Download - Stop Controller

Ethern	et	Users	SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relays)	Shunts	Fuses	Alarm Repor	t Power Split	Monitor Pr
Auto (Confi	g											
This func	tion v	vill autor	natically c	onfigure SM ι	units and modbus dev	ices that h	ave been con	nected to RS4	35 bus.			Auto Cor	nfig
Resto	re Fa	ctory D	efaults										
Restore o	lefau	lt config	uration? T	he system wil	ll reboot.					Restor	e Defaults	Reboot contro	ller
Retrie	ve S	ettingPa	aram.tar										
Retrieve	the c	urrent se	ettings of t	he controller's	s adjustable paramete	IS.						Retrieve F	ile
Retrie	ve D	iagnost	ics Packa	ige									
Retrieve	a dia	gnostics	package	to help trouble	eshoot controller issue	es						Retrieve F	ile
Uploa	d/Do	wnload											
Upload/D	owni	oad nee	ds to stop	the Controlle	r. Do you want to stop	the Contr	oller?					Stop Contro	ller

d) The following window opens.

Figure 1.11 Upload/Download - Controller Stopped

<	Etherne		Users	SNMP	Langua	age	SW Maintenan	се		DI Alarms	DO(relay)			Alarm Report	Power Split	Monitor Pro
	II Upload	d/Do	wnload	File												
							with extension .t				aded. If the do	wnloaded f	ile is NO	T correct, the Co	ntroller will run	
s	elect File			_				Brows	se	Download	to Controller					
F	ile in cont	trolle		Configu	ration Pa	Cont	roller was stoppe	d suc	cessfully.	. You can up	oad/download	l the file.	ОК			
	🛿 Start C	Contr	oller													
									Sta	art Controller						

- e) Click "OK".
- f) The following window opens.

Figure 1.12 Upload/Download File

<	Ethernet	Users	SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relay)	Shunts	Fuse	Alarm Report	Power Split	Monitor Prot
	Upload/D												
					with extension .tar of OLLER button before			ded. If the dov	wnloaded f	ile is NO	T correct, the Co	ntroller will run	
S	elect File			_	Bro	wse	Download t	o Controller					
Fi	le in contro	ller	Configur	ation Package	e 🗸 Uplo	ad to Com	puter						
	Start Cor	ntroller											
						St	art Controller						

ALERT! Never navigate from this Web page without first clicking on "Start Controller". If you do, you will not have Web access. A manual system reset is required to restore Web access.

- g) To download (from your computer into the controller) the application ("All") package; click the "Browse..." button and navigate to the folder where the file to download is located. Select the file to be downloaded and then click the "Download to Controller" button. This may take several minutes. Click "Start Controller" to restart the controller with the downloaded file installed.
- h) From the NCU WEB interface Homepage, verify the software version is V1.2.30, or later.
- [] 25. If your system ORIGINALLY had an NCU controller, refer to "Reloading a Backed-Up NCU Configuration" on page 17 and restore the backed-up controller configuration file saved in step [] 3.
- [] 26. Close the distribution cabinet front door.
- [] 27. Install separately ordered converter modules 1C48582000P3 in the far right mounting positions shown in Figure 1.1 and Figure 1.4, as required.
- [] 28. Click on the converter icon in the NCU WEB interface power system status block diagram. This brings up the converter group status page. Check the converter output voltage and the status of each converter installed to verify all converters installed are active.
- [] 29. Enable the external alarms or notify appropriate personnel that this procedure is finished.
- [] 30. Ensure that there are no local or remote alarms active on the system.
- [] 31. If your system ORIGINALLY had an ACU+ controller, refer to "Backing Up the NCU Configuration" on page 14 and backup the controller configuration. Save this configuration file in case the NCU configuration ever needs to be reloaded.
- [] 32. Save these instructions in case a backout procedure needs to be performed at a later date.

Backout Procedure

If the power system needs to revert back to -48V/+24V operation, perform the following procedure.

- [] 1. Performing this procedure may activate external alarms. Do one of the following. If possible, disable these alarms. If these alarms cannot be easily disabled, notify the appropriate personnel to disregard any future alarms associated with this system while the procedure is being performed.
- [] 2. Remove all existing -58 VDC output converter modules from the module mounting shelves.
- [] 3. Remove the "Use Only -58 VDC Converters" caution labels (60028735).
- [] 4. Open the distribution cabinet front door.
- [] 5. Remove the shield from the top distribution panel.
- [] 6. Press in tabs to release distribution device lead busbars for the -58V positions.
- [] 7. Remove distribution device lead busbars for the -58V positions.
- [] 8. Remove -58 VDC distribution position labels and replace with the saved +24 VDC distribution position labels (6-places).
- [] 9. Reverse order steps to re-assemble.
- [] 10. Remove load distribution position direction arrow label (-58VDC / -48VDC) (60029477) (1-place).
- [] 11. Replace the shield to the top distribution panel.
- [] 12. Remove the kit supplied module position label (60027289).
- [] 13. Remove the kit supplied nameplate label (60027891).
- [] 14. Remove the shield from the control shelf located at the bottom of the distribution cabinet.
- [] 15. Remove, insulate, and tie-back the fuse alarm jumper harness BLACK (BK) wire from the IB2-1 controller interface board terminal J4-6 (DI6+).
- [] 16. Remove, insulate, and tie-back the fuse alarm jumper harness ORANGE (O) wire from the IB2-1 controller interface board terminal J4-5 (DI6-).
- [] 17. Remove and insulate the connector plugged in J1, J2, J3, and J4 of the system interface board.
- [] 18. Separate and insulate the connectors on the fuse alarm jumper harness from the system wire harness. Connect the system wire harness connectors to J1, J2, J3, and J4 on the system interface board.
- [] 19. Remove, insulate, and tie-back the fuse alarm jumper harness from the quick connect terminal installed on the middle distribution panel return busbar.
- [] 20. Re-install the shield to the control shelf located at the bottom of the distribution cabinet.
- [] 21. Close the distribution cabinet front door.
- [] 22. Install converter modules 1C48241500 in the far-right converter module mounting positions, as required.
- [] 23. Enable the external alarms or notify appropriate personnel that this procedure is finished.
- [] 24. Ensure that there are no local or remote alarms active on the system.

1.6 Backing Up the NCU Configuration

1.6.1 NCU Version 1.1.80, or Later

General

To back up the NCU configuration, simply save the file named "SettingParam.tar".

Saving the "SettingParam.tar" File

Local Menu Navigation:

None.

Web Menu Navigation:

Advance Settings Menu / SW Maintenance Tab.

Procedure

1. Click on the "Retrieve File" button to save the file named "SettingParam.tar" to your computer. Select where you want the file to be copied to on your computer.

To aid in file management, you may change the name of the "SettingParam.tar" file to differentiate it from other "SettingParam.tar" files saved. The new name can use alpha and numeric characters preceding the original "SettingParam.tar" name (the end of the new file name **must** always be "SettingParam.tar"; for example, an acceptable filename would be "seville4SettingParam.tar").

Figure 1.13 Retrieve "SettingParam.tar" File

		C Ethernet Users SNMP Language SW Maintenance Alarms DI Alarms DO(relays) Shunts	Fuses Alarm Repo	ort Power Split Monito	r Protocol Clear Data
11 Home		# Auto Config			System Status
	11	This function will automatically configure SM units and modbus devices that have been connected to RS485 bus.		Auto Config	System Voltage 5
\	11	Restore Factory Defaults		System Current	
Settings	11	Restore default configuration? The system will reboot.	Restore Defaults	Reboot controller	System Specifications
(IN	11	Retrieve SettingParam.tar			System Name Rectifiers
L) History Lo	g	Retrieve the current settings of the controller's adjustable parameters.		Retrieve File	Controller Specifications
	11	# Retrieve Diagnostics Package			Product Model M
~	11	Retrieve a diagnostics package to help troubleshoot controller issues		Retrieve File	Serial Number 0319030
System Inventory	,	# Upload/Download			Hardware Version
		Upload/Download needs to stop the Controller. Do you want to stop the Controller?		Stop Controller	Software Version 1.2.2
					Config Version GEN_De
Settings	-1				Site Information
	11				Site Name
	11				Site Location
	11				
	11				
	11				
	11				
01/04	o you	u want to open or save SettingParam.tar (46.0 KB) from 10.201.229.44?		Open	Save Cancel ×
01104					

1.6.2 NCU Version 1.1.70, or Earlier

General

There are two steps in backing up the system's NCU configuration:

- Save the NCU configuration package. This package includes the base configuration and any changes made to alarm severity levels, relay assignments, signal names and site information.
- Save a file named "SettingParam.run". This file contains changes made to alarm setpoints and other settings such as float/ equalize voltage, etc. A file named "SettingParam.run" is automatically created/appended by the controller whenever a User (or the factory at the time of shipment) makes changes to parameter settings via the local display or Web Interface. This file can be saved to your computer so you can restore any custom settings you may have made.

Saving the Configuration Package

Local Menu Navigation:

None.

Web Menu Navigation:

Advance Settings Menu / SW Maintenance Tab.

Procedure

You can upload (from the controller to your computer) a configuration package.

1. To upload a file, you need to shut down the controller first. When you select the SW Maintenance Tab, click on the "Stop Controller" button.

Figure 1.14 Upload - Stop Controller

pload/Download	
	Upload/Download needs to stop the Controller. Do you want to stop the Controller?
	Stop Controller

2. The following window opens.

Figure 1.15 Upload - Controller Stopped

Ethernet Users	s SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relay)	Shunts	Fuse		
Upload/Downloa	d File									
Caution: Only the	file SettingPar	am.run or file	s with extension .tar	or .tar.gz c	an be downlo	aded. If the c	lownloaded	d file is N	TOI	
correct, the Contro	oller will run ab	onormally. Yo	u must hit the STAR	T CONTRO	DLLER button	before leavin	ng this scre	en.		
Select File	Contro	oller was stop	oped successfully. Ye	ou can uplo	oad/download	the file.	ок			
Select File File in controller		oller was stop			oad/download	the file.	OK			
					oad/download	the file.	OK			

- 3. Click "OK".
- 4. The following window opens.

Figure 1.16 Upload File

Advance	d Settings	> SW Mainte	enance				🚨 We	lcome:	admin	Logout
Ethernet Users	SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relay)	Shunts	Fuse		>>
II Upload/Download	File									-
			es with extension .tar ou must hit the STAR Brow	T CONTRO		before leavin			IOT	
File in controller	Configuration	on Package	✓ Upload to C	omputer						
# Start Controller										
			Start	Controller						

ALERT! Never navigate from this Web page without first clicking on "Start Controller". If you do, you will not have Web access. A manual system reset is required to restore Web access.

5. To **upload** a file to your computer, select "Configuration Package" from the "File in Controller" drop-down list box, and click on the "Upload to Computer" button to save the file to your computer. Select where you want the file to be copied to on your computer. Click "Start Controller" to restart the Controller.

Saving the SettingParam.Run File

Local Menu Navigation:

None.

Web Menu Navigation:

Advance Settings Menu / SW Maintenance Tab.

Procedure

1. Click on the "Retrieve File" button to save the file named "SettingParam.run" to your computer. Select where you want the file to be copied to on your computer.

To aid in file management, you may change the name of the "SettingParam.run" file to differentiate it from other "SettingParam.run" files saved. The new name can use alpha and numeric characters preceding the original "SettingParam.run" name (the end of the new file name **must** always be "SettingParam.run"; for example, an acceptable filename would be "seville4SettingParam.run").

Figure 1.17 Retrieve SettingParam.run

Retrieve SettingPara		
	Retrieve the current settings of the controller's adjustable parameters.	

1.7 Reloading a Backed-Up NCU Configuration

1.7.1 NCU Version 1.1.80, or Later

<u>General</u>

To reload the NCU configuration, simply download a saved "SettingParam.tar" file into the NCU.

Reloading the "SettingParam.tar" File

Local Menu Navigation:

None.

Web Menu Navigation:

Advance Settings Menu / SW Maintenance Tab.

Procedure

1. To download a file, you need to shut down the controller first. When you select the SW Maintenance Tab, click on the "Stop Controller" button.

Figure 1.18 Download - Stop Controller

Ethemet Users SNMP Language SW Maintenance Alarms DI Alarms DQ(relays) Shunts Fuses Alarm Report Power Split Mo # Auto Config This function will automatically configure SM units and modbus devices that have been connected to RS485 bus. # Restore Factory Defaults Restore default configuration? The system will reboot. Restore default configuration? The system will reboot. Retrieve SettingParam.tar Retrieve The Retrieve Diagnostics Package Retrieve a diagnostics package to help troubleshoot controller issues Retrieve a diagnostics package to help troubleshoot controller issues Upload/Download														
This function will automatically configure SM units and modbus devices that have been connected to RS485 bus. Auto Config Restore Factory Defaults Restore default configuration? The system will reboot. Restore Defaults Retrieve SettingParam.tar Retrieve SettingParam.tar Retrieve The current settings of the controller's adjustable parameters. Retrieve File Retrieve Diagnostics Package Retrieve a diagnostics package to help troubleshoot controller issues Retrieve a diagnostics package to help troubleshoot controller issues Upload/Download		Ethernet	Users	SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relays)	Shunts	Fuses	Alarm Report	t Power Split	Mon
Image: Control of a log of the control of a log	•	Auto Cor	nfig											
Restore default configuration? The system will reboot. Restore Defaults Reboot controller If Retrieve SettingParam.tar Retrieve File Retrieve File Retrieve the current settings of the controller's adjustable parameters. Retrieve File Retrieve File If Retrieve Diagnostics Package Retrieve File Retrieve File If Upload/Download Retrieve File Retrieve File	Th	nis functior	n will auto	matically c	onfigure SM ι	units and modbus devi	ices that h	ave been con	nected to RS4	35 bus.			Auto Con	ifig
Image: Controller in the controller is adjustable parameters. Retrieve SettingParam.tar Retrieve the current settings of the controller's adjustable parameters. Retrieve File Image: Retrieve Diagnostics Package Retrieve File Retrieve a diagnostics package to help troubleshoot controller issues Retrieve File Image: Upload/Download Image: Controller is a controller is a control in the control	•	Restore I	Factory E	Defaults										
Retrieve the current settings of the controller's adjustable parameters. Retrieve File If Retrieve Diagnostics Package Retrieve a diagnostics package to help troubleshoot controller issues Retrieve a diagnostics package to help troubleshoot controller issues Retrieve File If Upload/Download If Upload is a diagnostic to the Download	Re	estore defa	ault config	uration? T	he system wil	l reboot.					Restore	e Defaults	Reboot control	ler
Retrieve Diagnostics Package Retrieve a diagnostics package to help troubleshoot controller issues Upload/Download		Retrieve	SettingP	aram.tar										
Retrieve a diagnostics package to help troubleshoot controller issues Retrieve File Upload/Download	Re	etrieve the	current s	ettings of t	he controller's	adjustable paramete	rs.						Retrieve F	ile
Upload/Download		Retrieve	Diagnos	tics Packa	ge									
	Re	etrieve a d	iagnostics	s package i	to help trouble	eshoot controller issue	es						Retrieve F	ile
Upload/Download needs to stop the Controller. Do you want to stop the Controller? Stop Controller		Upload/E	ownload											
	Up	oload/Dow	nload nee	eds to stop	the Controlle	r. Do you want to stop	the Contr	oller?					Stop Control	ler

2. The following window opens.

Figure 1.19 Download - Controller Stopped

<	Etherne	t Users	SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relay)	Shunts	Fuse	Alarm Report	Power Split	Monitor Prot
	Upload	/Downloa	ad File										
					s with extension .tar o OLLER button before			ded. If the do	wnloaded	ile is NO	T correct, the Co	ntroller will run	
s	elect File			_	Bro	wse	Download	o Controller					
F	ile in cont	roller	Configu	ration Pa Con	troller was stopped s	uccessfully	. You can upl	oad/download	l the file.	OK			
	Start C	ontroller											
						St	art Controller						
													Þ

- 3. Click "OK".
- 4. The following window opens.

Figure 1.20 Download File

	Ethernet	Users	SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relay)	Shunts	Fuse	Alarm Report	Power Split	Monitor Pro
	Upload/I	Download	l File										
					with extension .tar of DLLER button before			ded. If the do	wnloaded t	ile is NO	T correct, the Co	ntroller will run	
S	elect File			_	Bro	wse	Download t	o Controller					
Fi	le in contro	oller	Configur	ration Package	e 🔻 Upla	ad to Com	puter						
	Start Co	ntroller											
						St	art Controller						
													Þ

ALERT! Never navigate from this Web page without first clicking on "Start Controller". If you do, you will not have Web access. A manual system reset is required to restore Web access.

5. To download (from your computer into the controller) a "SettingParam.tar" file; click the "Browse..." button and navigate to the folder where the file to download is located. Select the file to be downloaded and then click the "Download to Controller" button. Click "Start Controller" to restart the controller with the downloaded file installed.

1.7.2 NCU Version 1.1.70, or Earlier

General

There are two steps in reloading a backed-up NCU configuration:

- One step to reload the saved NCU configuration package.
- One step to reload the saved "SettingParam.run" file.

Reloading the Configuration Package

Local Menu Navigation:

None.

Web Menu Navigation:

Advance Settings Menu / SW Maintenance Tab.

Procedure

You can download (from your computer into the controller) a configuration package (filename has a tar or tar.gz extension).

1. To download a file, you need to shut down the controller first. When you select the SW Maintenance Tab, click on the "Stop Controller" button.

Figure 1.21 Download - Stop Controller

Upload/Download		
	Upload/Download needs to stop the Controller. Do you want to stop the Controller?	
	Stop Controller	

2. The following window opens.

Figure 1.22 Download - Controller Stopped

Advanc > Advanc	ed Settings	> SW Maint	enance				🚨 We	lcome:	admin (Logou
Ethernet User	s SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relay)	Shunts	Fuse		X
III Upload/Downloa	d File									
	oller will run a	abnormally. Ye	es with extension .tar ou must hit the STAR	T CONTRO	OLLER button	i before leavir			тот	
File in controller		tion Package)					
Start Controller										
			Start	Controller						

- 3. Click "OK".
- 4. The following window opens.

Figure 1.23 Download File

Home > Advanc	ed Settings	> SW Mainte	enance				🚨 We	elcome:	admin	Logout
Ethernet Users	s SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relay)	Shunts	Fuse		>>
II Upload/Downloa	d File									
Caution: Only the	file SettingP:	aram run or file	s with extension .tar	or tar oz c	an he downly	naded. If the d	lownloade	d file is l	NOT	
-	_		u must hit the STAR	_						
Select File			Brow	/se	Download to	o Controller	1			
File in controller	Configurat	ion Package	Upload to C	omputer						
Start Controller										
III Start Controller										
			Start	Controller						

ALERT! Never navigate from this Web page without first clicking on "Start Controller". If you do, you will not have Web access. A manual system reset is required to restore Web access.

5. To download (from your computer into the controller) a configuration package; click the "Browse..." button and navigate to the folder where the file to download is located. Select the file to be downloaded and then click the "Download to Controller" button. Click "Start Controller" to restart the controller with the downloaded file installed.

Reloading the SettingParam.Run File

Local Menu Navigation:

None.

Web Menu Navigation:

Advance Settings Menu / SW Maintenance Tab.

Procedure

You can download (from your computer into the controller) a "SettingParam.run file".

1. To download a file, you need to shut down the controller first. When you select the SW Maintenance Tab, click on the "Stop Controller" button.

Figure 1.24 Download - Stop Controller



2. The following window opens.

Figure 1.25 Download - Controller Stopped

Upload/Download File Caution: Only the file SettingParam.run or files with extension .tar or .tar.gz can be downloaded. If the downloaded file is NOT correct, the Controller will run abnormally. You must hit the START CONTROLLER button before leaving this screen. Select File Controller was stopped successfully. You can upload/download the file. Kile in controller Configuration Package Upload to Computer	Ethernet Users	s SNMP	Language	SW Maintenance	Alarms	DI Alarms	DO(relay)	Shunts	Fuse	
correct, the Controller will run abnormally. You must hit the START CONTROLLER button before leaving this screen. Select File Controller was stopped successfully. You can upload/download the file.	Upload/Downloa	d File								
correct, the Controller will run abnormally. You must hit the START CONTROLLER button before leaving this screen. Select File Controller was stopped successfully. You can upload/download the file.										IOT
Controller was stopped successfully. You can upload/download the file.										
		and a minimum of						70.		
File in controller Configuration Package Upload to Computer										
			ii.			ad/download		DK		
	Select File File in controller	Contr	roller was sto	pped successfully. Ye	ou can uplo	ad/download				
Start Controller	Select File File in controller	Contr	roller was sto	pped successfully. Ye	ou can uplo	ad/download				

- 3. Click "OK".
- 4. The following window opens.

Figure 1.26 Download File

Ethernet Users	S SNMP	Language 9	W Maintenance	Alarms	DI Alarms	DO(relay)	Shunts	Fuse		
Upload/Downloa	d File									
Caution: Only the correct, the Contro				_					IOT	
					JELEI (Dutton	Delore leavin	ig uno ocre	ALL.		
			Brow	/se	Download to	Controller]			
					Download to) Controller)			
Select File		on Package 🔽	Brow Upload to C		Download to	Ocontroller]			
Select File File in controller		on Package 🗸			Download to	Controller]			
Select File File in controller Start Controller		on Package 🗸			Download to) Controller				

ALERT! Never navigate from this Web page without first clicking on "Start Controller". If you do, you will not have Web access. A manual system reset is required to restore Web access.

5. To **download** (from your computer into the controller) a "SettingParam.run" file; click the "Browse..." button and navigate to the folder where the file to download is located. Select the file to be downloaded and then click the "Download to Controller" button. Click "Start Controller" to restart the controller with the downloaded file installed.

This page intentionally left blank.

Connect with Vertiv on Social Media



https://www.facebook.com/vertiv/



https://www.instagram.com/vertiv/



https://www.linkedin.com/company/vertiv/



https://www.twitter.com/vertiv/



Vertiv.com | Vertiv Headquarters, 505 N Cleveland Ave, Westerville, OH 43082, USA

© 2023 Vertiv Group Corp. All rights reserved. Vertiv[™] and the Vertiv logo are trademarks or registered trademarks of Vertiv Group Corp. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness here, Vertiv Group Corp. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions.