

## Cordex Rectifier Replacement Procedure

### Summary

This procedure outlines how to replace a rectifier in a power system and how to update the inventory on the Cordex Controller and/or the Cordex HP Controller.

### Equipment or Tools Necessary

- Laptop with an Ethernet port and a web browser (such as Internet Explorer (version 9 or higher), Firefox or Google Chrome)
- Ethernet cable (crossover for XP or straight-through for Vista/7/10)

### Procedure

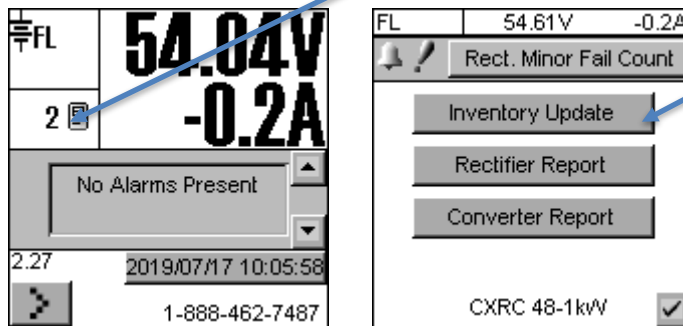
#### A. For Power System with CXC Controller:

1. Pull-out the rectifier module that needs to be replaced and insert the new module. The controller should automatically recognize the new rectifier module.

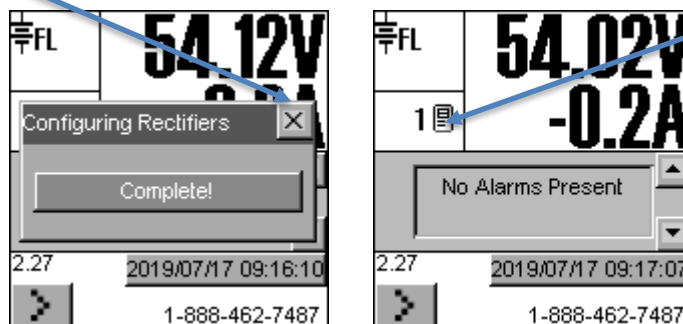
Note: Cordex rectifiers are hot-swappable which means that the rectifier that needs to be replaced can be pulled out and a new one pushed in without turning off/on the AC breaker.

#### 2. Using the Touch Display

- a. On the Main Screen, tap on the icon for rectifiers then on the next screen, tap on Inventory Update.



- b. The controller will update inventory. If the configuring rectifiers message pops out, just tap on the X mark to clear it. The controller should reflect the actual number of rectifiers installed.





3. **Using the WEB GUI.**

- a. Log into the controller using a laptop.
- b. Once the rectifier has been replaced, click on **Rectifiers** and **Inventory Update**.

System | Controller | Converters | **Rectifiers** | Batteries | Alarms | Signals | Controls | Communications | Hardware | Logs and Files | Supervisor  
View Live Status | Configure Rectifiers | **Inventory Update** | Power Save | Rectifier Phase Mapping

**Rectifiers > View Live Status**

Rectifier Report					
Serial Number	Device Name	%	Amps	Alarms	OOT
N00401837/0105	48-1kW	4	0.9	0	0
N406804/0606	48-1kW	0	0.0	3	0

**Rectifier Alarms**

**Out of Tolerance**

- c. Latest software version will go to the next window as shown below, click on **Inventory Update** to continue.

System | Controller | Converters | **Rectifiers** | Batteries | Alarms | Signals | Controls | Communications | Hardware | Logs and Files | Supervisor  
View Live Status | Configure Rectifiers | **Inventory Update** | Power Save | Rectifier Phase Mapping

**System > Inventory Update**

**Inventory Update**

Warning: Inventory Update will cause the Controller to temporarily lose contact with all CAN devices while they are reacquired.

Inventory Update

- d. Otherwise, if it is an older software version, it will just proceed with the inventory update and refreshes the Rectifier Report window.

System | Controller | Converters | **Rectifiers** | Batteries | Alarms | Signals | Controls | Communications | Hardware | Logs and Files | Supervisor  
View Live Status | Configure Rectifiers | **Inventory Update** | Power Save | Rectifier Phase Mapping

**Rectifiers > View Live Status**

Rectifier Report					
Serial Number	Device Name	%	Amps	Alarms	OOT
N00401837/0105	48-1kW	3	0.8	0	0

**Rectifier Alarms**

**Out of Tolerance**

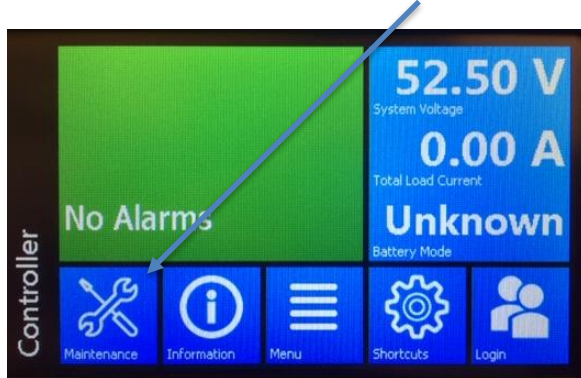
**B. For Power System with CXC-HP Controller:**

1. Pull-out the rectifier module that needs to be replaced and insert the new module. The controller should automatically recognize the new rectifier module.

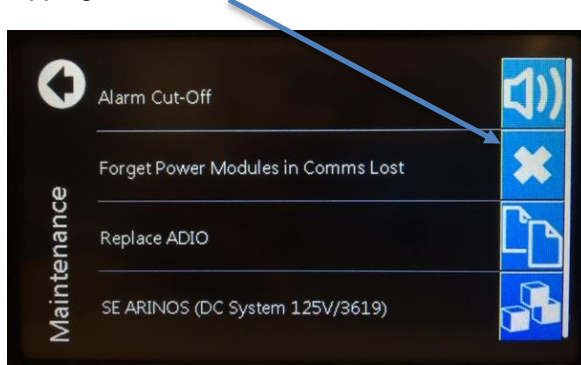
Note: Cordex rectifiers are hot-swappable which means that the rectifier that needs to be replaced can be pulled out and a new one pushed in without turning off/on the AC breaker.

2. **Using the Touch Display**

- a. On the Main Screen, tap on **Maintenance**.



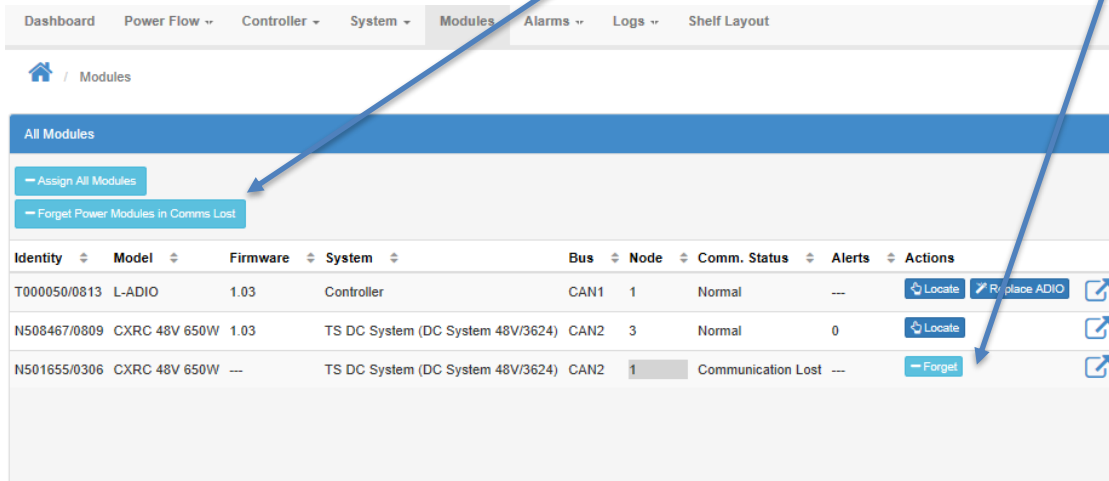
- b. To clear the modules that have been removed, do the **Forget Power Modules in Comms Lost** by tapping on the **X-mark**.



3. Using the WEB GUI.

- a. Log into the controller using a laptop.
- b. Once the rectifier has been replaced, in the menu, go to **Modules** then under **All Modules**, do the Forget command for rectifiers in Communication Lost.

For multiple modules, do the **Forget Power Modules in Comms Lost** button or just the **Forget** button option on each module that is in communications lost alarm.



- c. The controller should clear the rectifier module from the inventory list.

**End of Method of Procedures**

**For assistance, contact Alpha Technical Support:**

Toll Free North America: 1-888-462-7487

International: +1-604-436-5547

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