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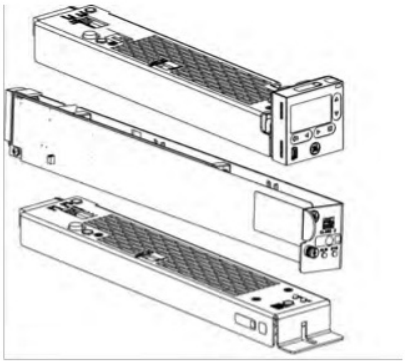
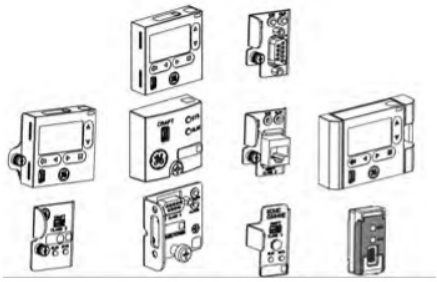
# ABB Many Galaxy Pulsar Edge Controller

## Galaxy Pulsar Edge Controller

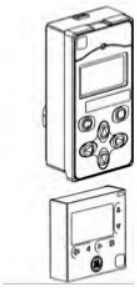
Models: Many



Typical Controllers



Typical Controllers Faces



Typical Separate Displays

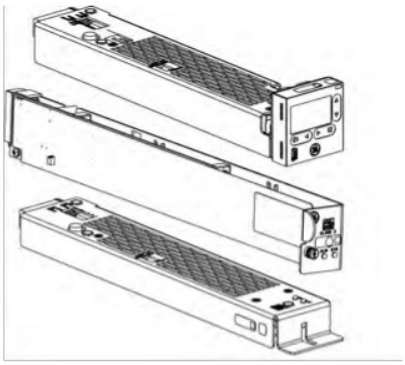
The Galaxy Pulsar Edge Controller is the system controller of many ABB power system families. The various models provide system family compatibility and user interface variants. This guide is intended to provide basic information for controller installation, start up, and operation. Application specific installation information is provided in equipment documentation (quick start guides, installation guides, and product manuals). A Quick Start Guide Supplement provides customer specific Default Voltage Settings and Alarm Signal assignments when they are factory configured. Controller detail is available in the Pulsar Edge Controller Family Product Manual (CC848815341) available at [abbpowerconversion.com](abbpowerconversion.com)

**Step 1- Set Jumpers- LAN Port and Alarm Relay**

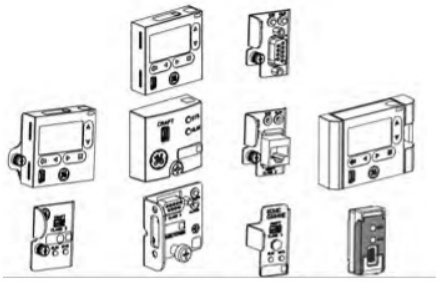
Before installing the controller configure the jumpers- top or side of the controller.

| | Controller Jumper Settings | |
|---|---|---|
| | CAUTION: Do not connect LAN port to a netw ork when jumper is set to Local. | |
| LAN Po rt – J5 | Local (Server): J5 LAN connects to a laptop. Local (Server) is a temporary setting, once co nfiguration is complete move the jumper back to Network (Client) mode. | |
| | | (Default). |

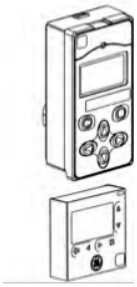
| | |
|---|---|
| Alarm Relays | Alarm Relays can be set to operate as Close on Alarm or Open on Alarm. Open on Alarm is the Factory Default setting. Move Alarm jumpers to Close on Alarm when required. Example: MODEL: CP841A_0I6R has 6 alarm relays – PMJ, PMN, 1, 2, 3, and 4. |



**Typical Controllers**



**Typical Controllers Faces**

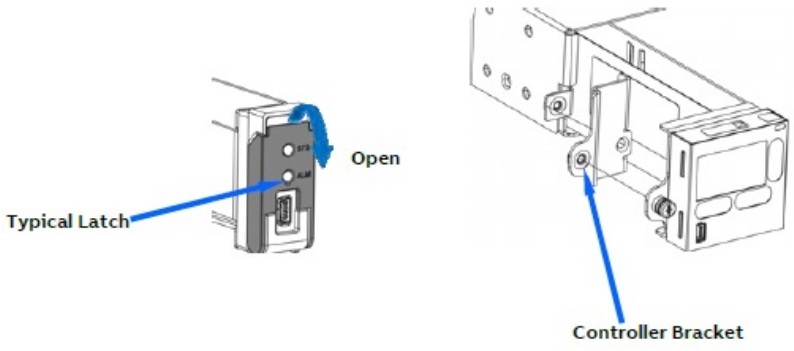


**Typical Separate Displays**

### Step 2 – Install Controller in Shelf

SPS Controllers with display snap into the shelf slot. Other Controllers are secured with a latch or screw. The Controller installs into the left most slot of a compatible shelf with slots or into a controller backplane within a compatible shelf

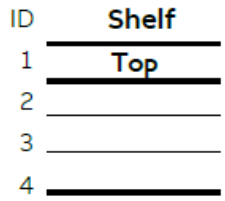
1. Install the Controller Bracket. Torque to 5 in-lb (0.5 Nm) (NE Controllers with display only).
2. Replace the latch on the front with the bracket for screw mount if necessary (CP applications only) Snap off latch. Snap on bracket for screw.
3. Open the latch on the front if present.
4. Firmly slide the controller into the shelf or backplane. CAUTION: DO NOT press on LEDs or LCD.
5. Secure with screw or latch, if present.



**Step 3 – Set Shelf IDs – per shelf Quick Start Guides- some shelves**

- Shelf ID switches and jumpers are located on the rear of some rectifier/ converter
- shelf models- see shelf quick start guides for location.
- Shelf ID must be unique and in the range of 1 to F.
- Set rectifier/converter shelf IDs in sequence beginning with 1 at the top shelf.

**Step 4 – Install Signal and Communications Cables**




- Communications cables are connected at the rear of many systems.
- Install communications cables as instructed in equipment documentation and in site engineering instructions. See Information: Connectors.

**Step 5- Install 1-Wire Battery Temp, Ambient Temperature, and Voltage Monitor – Optional**

- Install 1-Wire Battery Temp, Ambient Temperature, and Voltage Monitor as instructed in equipment documentation and in site engineering instructions.
- See Information: 1-Wire Battery Temp and Voltage Monitor.

**Step 6 – System Initial Start Up**

Power the controller – follow the system start up procedure as instructed in equipment documentation and in site engineering instructions.

**Step 7 – Configure Controller**

Verify and edit controller basic configuration parameters per site engineering instructions. CAUTION:

1. DHCP/Static IP Address – set per site engineering instructions to assure network

access.

2. Converter Voltage Set Point- Set both Converter Internal Selective High Voltage Shutdown and Converter High Output Voltage Major Alarm higher than desired Converter Voltage Set Point. before setting Converter Voltage Set Point. Converters will not operate when either of these parameters is set to less than the Converter Voltage Set Point.

**See Information: Basic Operation**

Basic Configuration- minimum for operation and communication

## Basic Configuration

| | | |
|---|---|---|
| Controller | | |
| System Date, System Time | | |
| Site ID, Site Description | | Browser or EasyView only |
| Shelf J-Code or Product Code | | Browser or EasyView only |
| DHCP / Static IP Address | Network page (Settings tab, Communications group) | Configuration > Communications Ports > NetworkSettings |
| | | Browser or EasyView only |
| Rectifier | | |
| Float Set Point | Rectifier page (Settings tab, Power group) | Configuration > Float Settings > Set Point |
| Converter | | |

| | | |
|---|---|---|
| | Converter page (Settings tab, Power group | Configuration > Converters Settings > HV Shutdown |
| High Output Voltage Major Alarm | Converter page (Settings tab, Power group) | Configuration > Converters > Voltage Alarms > HighMajor |
| Voltage Set Point | Converter page (Settings tab, Power group) | Configuration > Converters > Set Point |
| Battery | | |
| | | Configuration > Shunt Monitors > Built In |
| Battery Disconnect | | Configuration > Contactor Interfaces > Build In – type“LVBD |
| Ringer | | |
| Output Frequency | | Configuration > Ringers > Frequency |
| | | Configuration > Ringers > Voltage |
| Offset Voltage | | Configuration > Ringers > DC Offset |
| Ringer Alarms | | Configuration > Ringers > Redundancy |
| Line Power (Remote Power or FTTN) | | |
| | FTTN page (Settings tab, System group) | Configuration > FTTN > Mult Fail, Redundancy, Load Drop, Load Share |

**Advanced Configuration**

complete, site specific configuration Verify and edit remaining controller parameters per site engineering instructions.

## Information

### Controller Default Voltage Settings and Ranges

- Configure these parameters per site engineering instructions.
- See Quick Start Guide Supplements for customer specific Default Settings.

| Rectifier & Battery Management | 24V | | | | 48V | | | |
|---|---|---|---|---|---|---|---|---|
| Standard Default Voltage Settings and Ranges[1] | Range | Default[1] Valve-Reg | Flooded | NiCd | Range | Default[1] Valve-Reg | Flooded | NiCd |
| Float Voltage | 21 to 28V | 27.24 | 26.04 | 27.2 | 42 to 556.5V | 54.48 | 52.08 | 54.40 |
| Boost Voltage | 22 to 30 | 27.24 | 25.00 | 27.20 | 48 to 58V | 55.20 | 57.00 | 54.40 |
| Rectifier Float Selective High Voltage Shutdown | 25 to 30V | 29.25 | 29.25 | 29.25 | -50 to -60V | 58.50 | 58.50 | 58.50 |
| High Float Voltage Major Alarm | 25 to 30V | 28.24 | 28.24 | 28.24 | -50 to -60V | 57.00 | 57.00 | 57.00 |
| High Float Voltage Minor Alarm | 25 to 30V | 27.74 | 27.74 | 27.74 | -50 to -60V | 56.00 | 56.00 | 56.00 |
| Rectifier/System Float Voltage | 21 to 28.25V | 27.24 | 25.00 | 27.20 | -42 to -56.5V | 54.48 | 52.08 | 54.40 |
| Battery on Discharge Float Alarm | 23 to 27.25V | 25.54 | 25.00 | 25.54 | -46 to -55V | 51.00 | 50.00 | 51.00 |
| Very Low Float Voltage Alarm | 20 to 25.5V | 23.00 | 23.00 | 23.00 | -40 to -51V | 46.00 | 46.00 | 46.00 |
| Rectifier On Threshold | 20 to 25.5V | 22.00 | 22.00 | 22.00 | -40 to -51V | 44.00 | 44.00 | 44.00 |

| Converter Management | 24V Output | | 48V Output | |
|---|---|---|---|---|
| Standard Default Voltage Settings and Ranges[1] | Range | Default[1] | Range | Default[1] |
| Internal Selective High Voltage Shutdown | 25 to 30V | 29.0 | 50 to 60V | 58.0 |
| High Output Voltage Major Alarm | 25 to 30V | 28.5 | 50 to 60V | 56.0 |
| High Float Voltage Minor Alarm | 24 to 30V | 27.0 | 48 to 60V | 54.0 |
| Output Voltage | 23 to 27.2V | 26.0 | 46 to 54.4V | 52.0 |
| Low Voltage Alarm | 20 to 27.0V | 23.0 | 40 to 54V | 46.0 |

1. Customer specific factory defaults – see the Quick Start Guide Supplement.

### Information: Connectors

See equipment Quick Start Guides and Quick Start Guide Supplements for details of connector, factory signal assignments, and available cables. Connectors are on the primary shelf (equipped with controller), usually at the rear. Physical styles and locations of system mounted connectors are system specific. Not all connectors are present on all systems.

| Connector | Label | Position[1] | Function | Connect to |
|---|---|---|---|---|
| J1 | ALARMS | | Alarm Input and Output | Office Alarm Block (alarm outputs) and Alarm Inputs |
| J2[2] | ALARMS | | Alarm Input | Alarm Inputs |
| J3/J4 (RJ-45) | DATA | Upper | 1-Wire | 1-Wire devices |
| | | Lower | ABB Device Comm | Compatible shelves via Daisy Chain |
| J5 (RJ-45) | LAN | | 10/100Base-T | Network or Local PC |
| J7 | DIST | | Distribution Signals | Compatible Distribution Shelf |

1. DATA connectors (J3 and J4) are usually positioned one above the other. Use only the

upper connector for 1-Wire devic-es. See equipment Quick Start Guide.

2. ALARM connections (J2) Some systems split alarm signals between J1 and J2. Some systems provide all alarm signals on J1, omitting J2. See equipment Quick Start Guide for details.

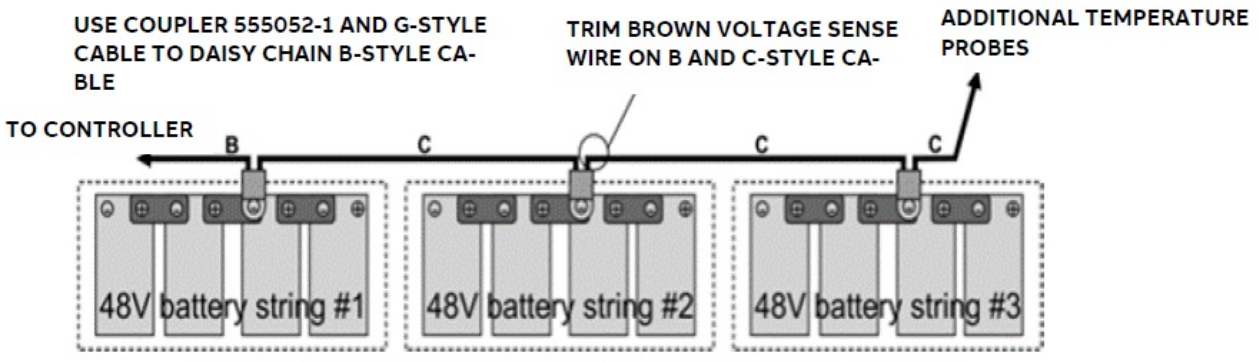
**Information: Alarms – Power Minor (PMN) and Power Major (PMJ)**

- PMN reports during every minor alarm condition.
- PMJ reports during every major alarm condition.

**Information**: 1-Wire Battery Temp, Ambient Temperature, and Voltage Monitor

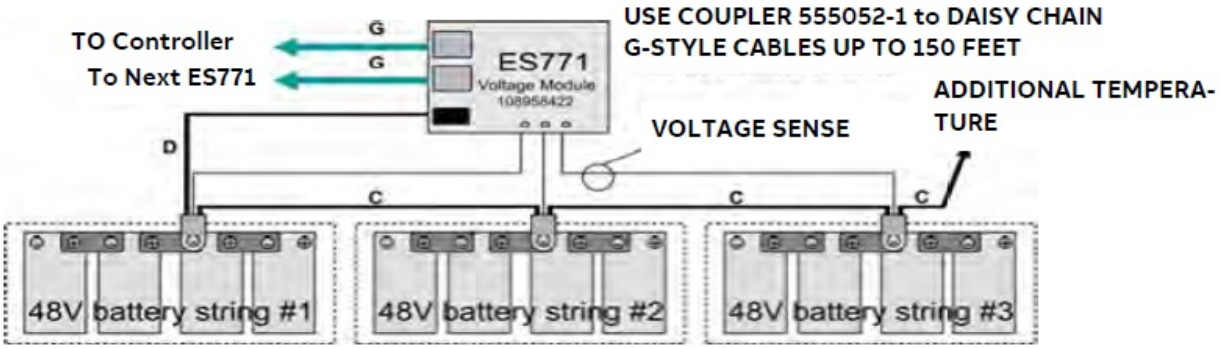
- Wire Monitoring is accomplished with a “Daisy Chained” series of probes connected to the upper DATA connector (J3/J4) on the primary shelf (equipped with controller).
- Battery Probes monitor battery temperature and voltage (ES771 required to monitor voltage). Bolt the Battery Probe under battery “–“ terminal connector hardware; NOT under the connecting lug.
- Ambient Probes monitor ambient temperature. Mount the Ambient probe as desired.
- All 1-Wire probes may be connected to any 1-Wire daisy-chain using the wire sets listed below.

1. **Max per system: Probes – 16, ES771 Modules – 6.**




1-Wire Daisy-Chain Battery Temperature Measurement

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




**1-Wire Daisy-Chain Battery Temperature and Voltage Measurement**

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

## Information: Basic Operation

Controller LEDs – Alarm Status: SYS: Green = Normal

- Amber = Minor Alarm
- Red = Critical/Major Alarm
- ALM: Red = certain user defined alarms

System Parameters: View and change from the factory defaults via:

- LAN port in Local mode via a laptop (web pages)
- Network (web pages)
- Craft Port via laptop and EasyView2 software (or HyperTerminal).
- Controller Display Panel – on some models.

Details in Pulsar Edge Controller Family Product Manual.

- LAN port Local or Network
- Set by the jumper setting shown in step 1.
- EasyView2 (GUI) software can be downloaded from abbpowerconversion.com

**LAN port Local or Network**

- Set by the jumper setting shown in step 1.
- EasyView2 (GUI) software can be downloaded from abbpowerconversion.com

**Connect PC via Craft Port**

1. Connect laptop PC to Craft port.
2. Run EasyView2 program.
3. Follow Operation Web Page/EasyView2

**Connect PC via LAN Port**

1. Set LAN port to Local – jumper setting shown in Step 1.
2. Connect laptop PC to LAN port.
3. Follow Operation Web Page / EasyView2
4. Set LAN port to Network mode and connect network cable to restore network access.

**Connect PC via Network**

1. With LAN port set to Network (Step 1).
2. Open a browser or EasyView2 on a network connected PC.
3. Follow Operation Web Page /EasyView2

View and Change- Web Page/EasyView2

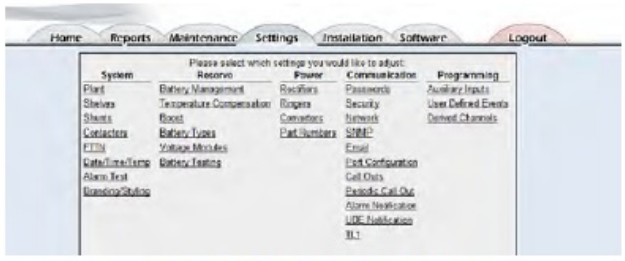
1. Connect via browser or EasyView2 – default IP address 192.168.2.1
2. Login to the controller – username is not required by default
    - Access (Default Username) …….. Default Password
    - Read-Only (none) …….. ABB

- Read/Write (none)…… super-user
- Read/Write/Password Administration (“admin”) …….. administrator

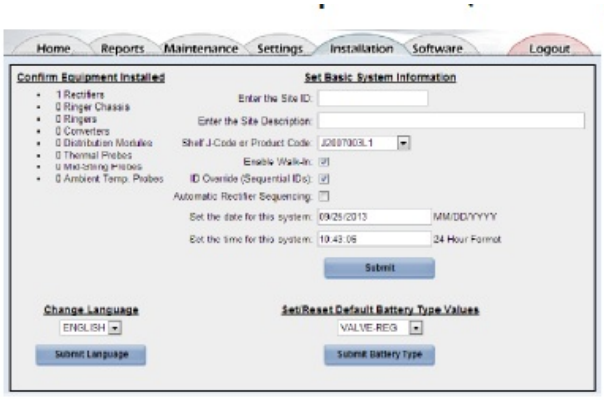
3. Select the desired tab – Installation and Settings tabs for configuration.
4. Select the desired item from the items grouped in columns.
5. View and change system parameters as instructed in equipment documentation and in site engineering instructions.

Compatibility: Web Pages have been tested with Internet Explorer versions up to and including version 11. EasyView2 has been tested with 32-bit and 64 bit Windows versions up to Windows 8.

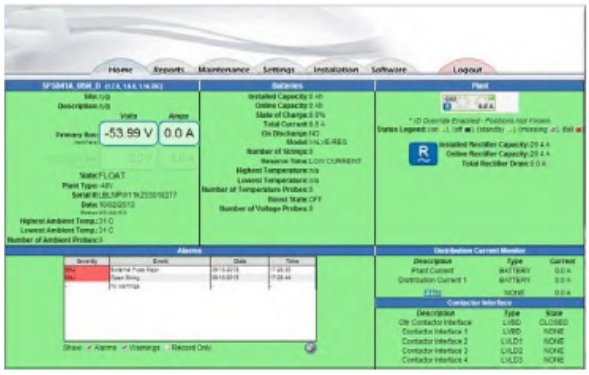
EasyView2/Web Login Page




EasyView2/Web Settings Page



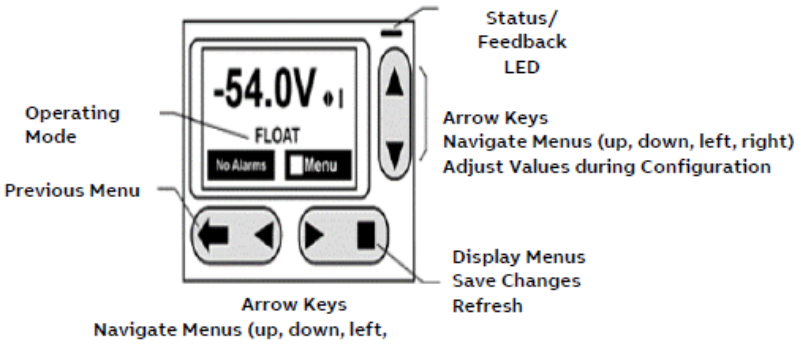

EasyView2/Web Installation Page



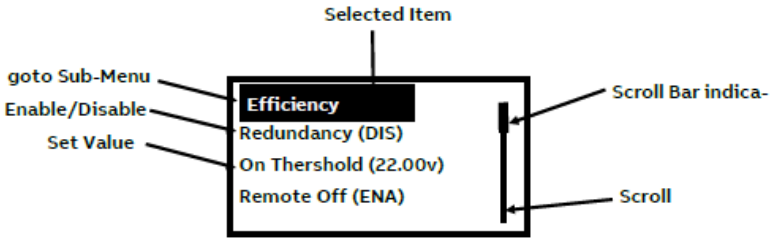

EasyView2/Web Home Page Example

**View and Change – Display Panel (on some models)**

Most controller features not requiring alpha character input are available via the display panel provided on some models.




**Display Panel– Normal Screen**




**Typical Menu Screen**

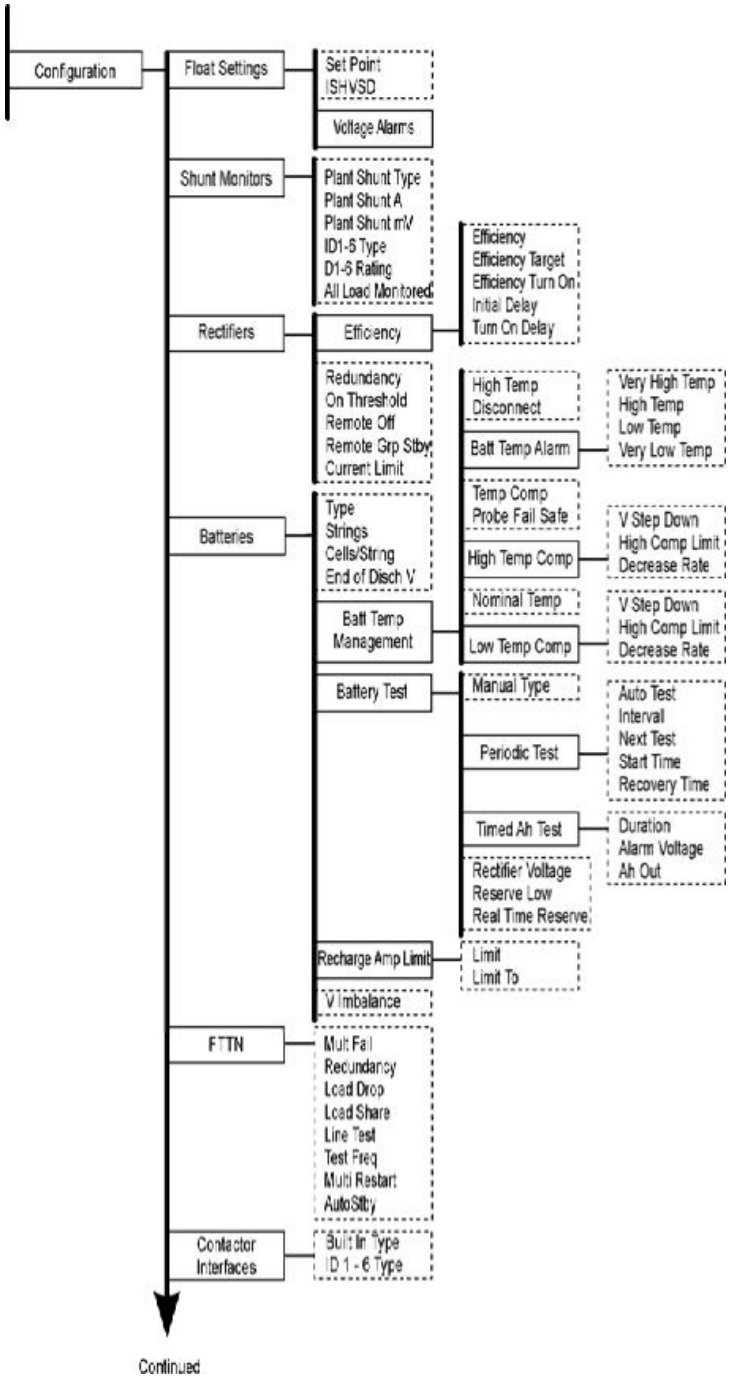
Scroll bar indicates presence of menu items at ove or below the present view. Scroll bar Indicator shows position in scroll list.

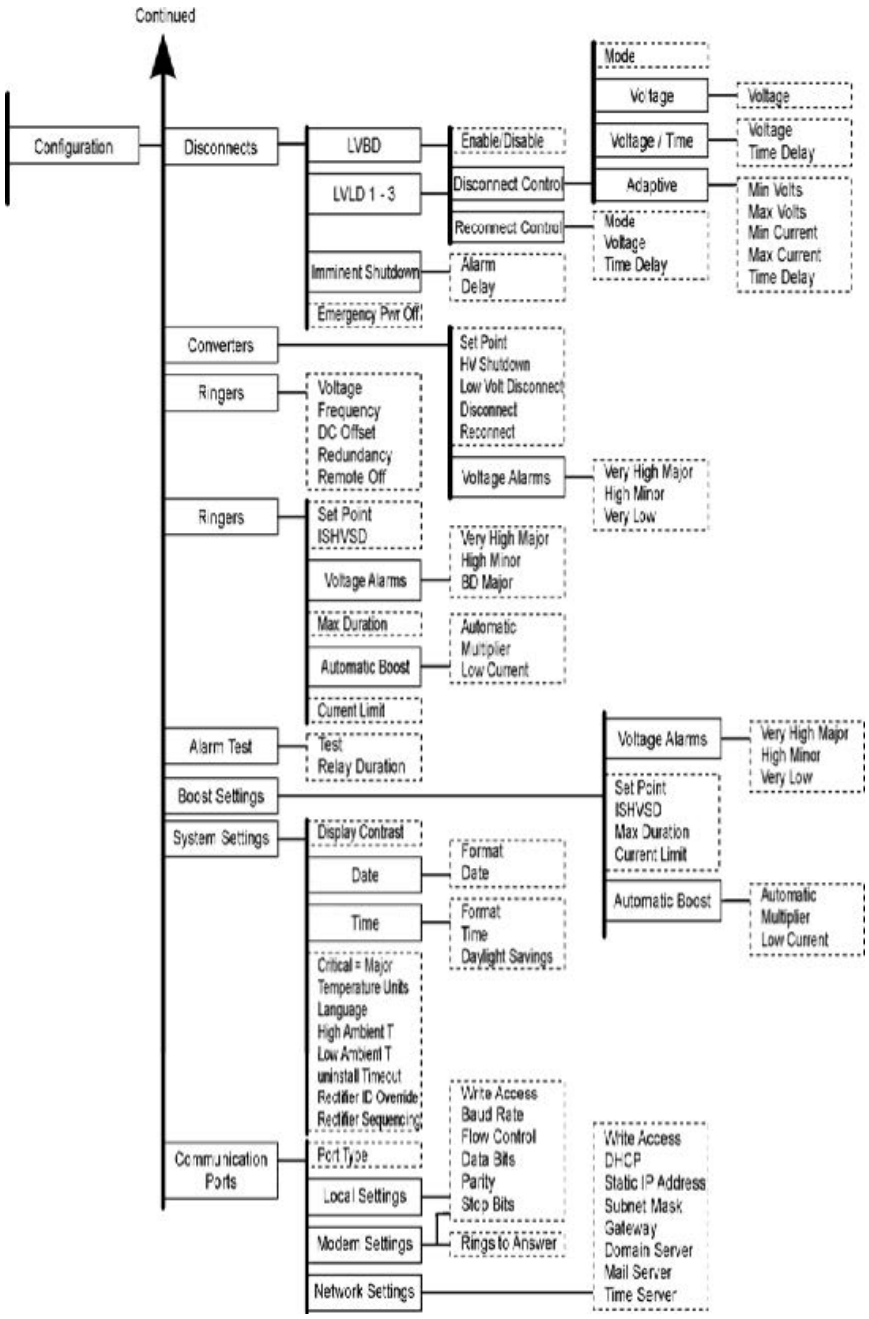
| Buttons | | Description |
|---|---|---|
| | Navigate | Menu Screens - navigate to make a selection<br>Selected menu items displayed with a value in parentheses are edited by pressing Enter<br>Menu items without a value in parentheses have sub-menus<br>Parameter Edit- ◂ ▸ select the digit to increment or decrement<br>Normal Screen- ◂ ▸ shift display between V and I |
| | Parameter Change | Parameter Edit - increase or decrease the value of the selected digit<br>Normal Screen - Adjust LCD contrast |
| | Enter | Menu Screens - Enter a sub-menu<br>Enter a parameter to change, or confirms a parameter change<br>Normal Screen - Enter top level menu |
| | ESC | Up one menu level or Exit a parameter change without saving |

- Clear Missing Devices/Uninstall Equipment
- Some alarms indicate that a previously connected device is no longer connected, e.g. Com Fail and FAJ for DIN breakers.
- Remove the devices from controller memory to clear these alarms.
- Clear Missing Devices / Uninstall Equipment
- Command- removes devices no longer connected from memory and ends associated alarms.
- Web: Maintenance Tab, Clear Data column: clear missing devices
- Display Menu: Control/Operations > Uninstall Equipment – only clears missing devices

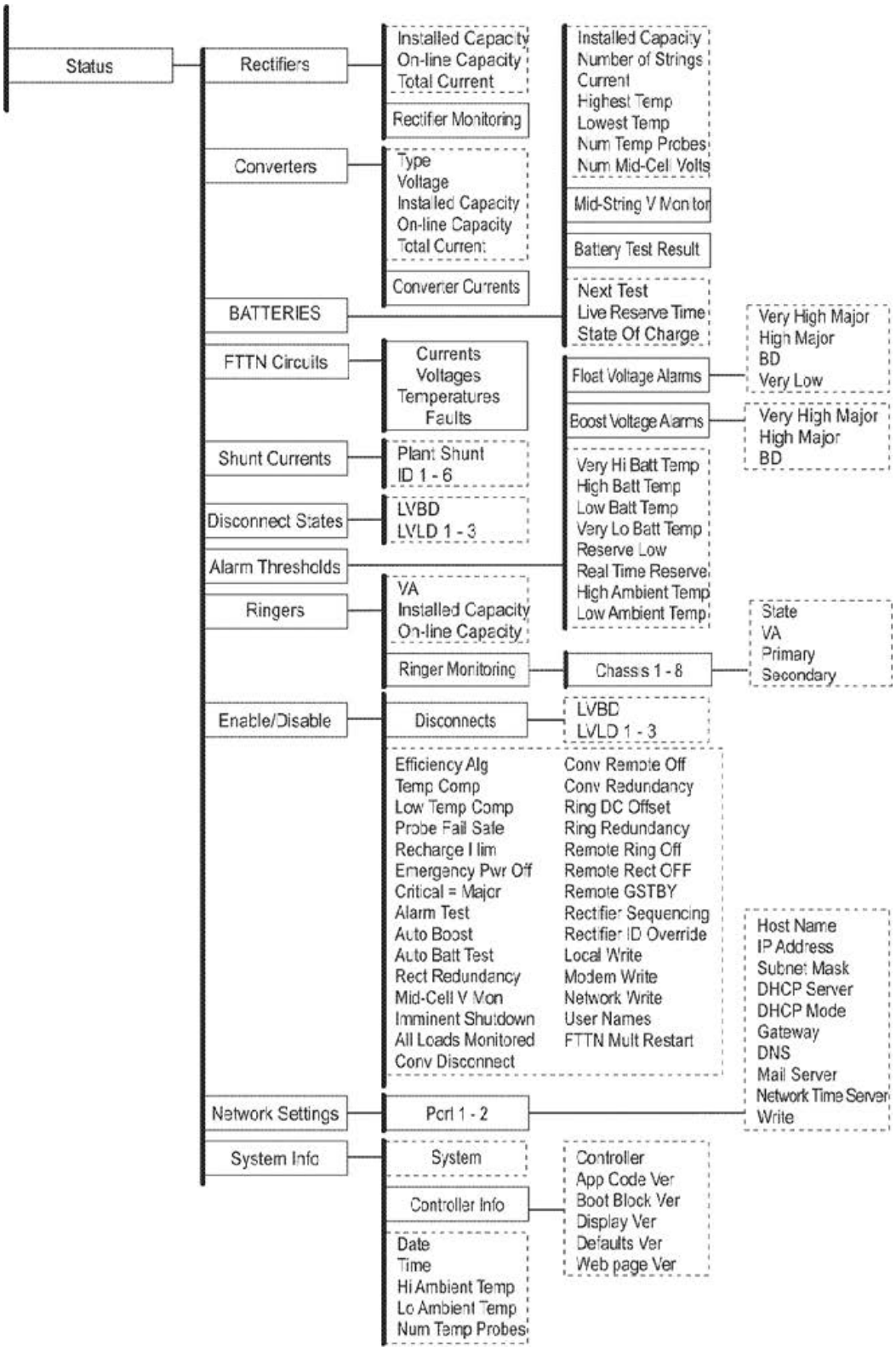
- Connecting a device to the controller automatically adds it to the connected device memory.

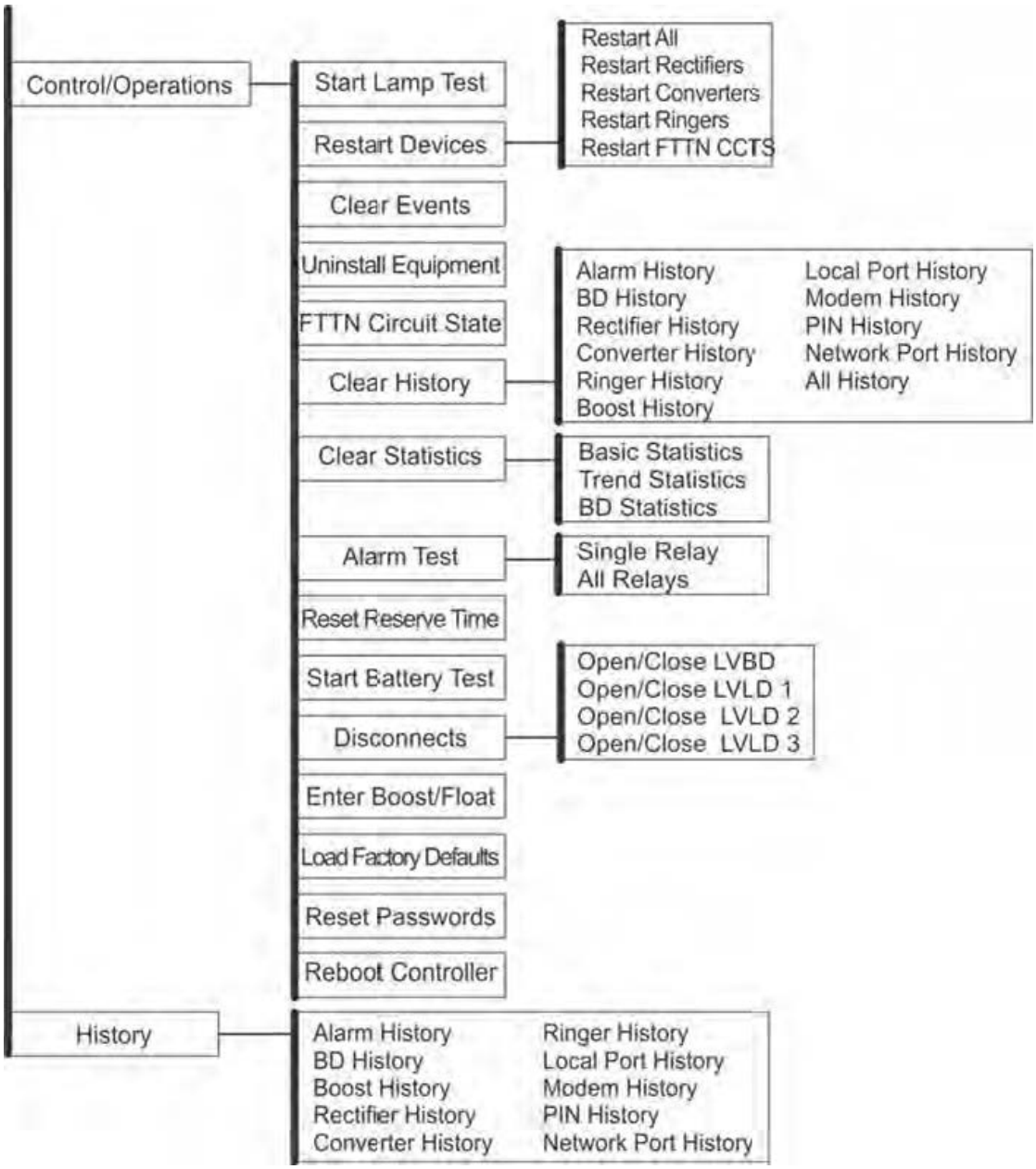
Information: Configuration Menus (display panel)






**Information: Status and Control/Operations and History Menus (display panel)**


Status
Rectifiers
Installed Capacity
On-line Capacity
Total Current
Rectifier Monitoring
Converters
Type
Voltage
Installed Capacity
On-line Capacity
Total Current
Converter Currents
BATTERIES
FTTN Circuits
Currents
Voltages
Temperatures
Faults
Shunt Currents
Plant Shunt
ID 1 - 6
Disconnect States
LVBD
LVLD 1 - 3
Alarm Thresholds
Ringers
VA
Installed Capacity
On-line Capacity
Ringer Monitoring
Enable/Disable
Disconnects
Network Settings
Port 1 - 2
System Info
System
Controller Info
Date
Time
Hi Ambient Temp
Lo Ambient Temp
Num Temp Probes
Installed Capacity
Number of Strings
Current
Highest Temp
Lowest Temp
Num Temp Probes
Num Mid-Cell Volts
Mid-String V Monitor
Battery Test Result
Next Test
Live Reserve Time
State Of Charge
Float Voltage Alarms
Very High Major
High Major
BD
Very Low
Boost Voltage Alarms
Very High Major
High Major
BD
Very Hi Batt Temp
High Batt Temp
Low Batt Temp
Very Lo Batt Temp
Reserve Low
Real Time Reserve
High Ambient Temp
Low Ambient Temp
Chassis 1 - 8
State
VA
Primary
Secondary
LVBD
LVLD 1 - 3
Efficiency Alg
Temp Comp
Low Temp Comp
Probe Fail Safe
Recharge I lim
Emergency Pwr Off
Critical = Major
Alarm Test
Auto Boost
Auto Batt Test
Rect Redundancy
Mid-Cell V Mon
Imminent Shutdown
All Loads Monitored
Conv Disconnect
Conv Remote Off
Conv Redundancy
Ring DC Offset
Ring Redundancy
Remote Ring Off
Remote Rect OFF
Remote GSTBY
Rectifier Sequencing
Rectifier ID Override
Local Write
Modem Write
Network Write
User Names
FTTN Mult Restart
Controller
App Code Ver
Boot Block Ver
Display Ver
Defaults Ver
Web page Ver
Host Name
IP Address
Subnet Mask
DHCP Server
DHCP Mode
Gateway
DNS
Mail Server
Network Time Server
Write




## Information – Troubleshooting DC System (1)

| ControllerLED | User Interface Display | Rectifier LED | Distribution Module Card LED | Possible Problem | Possible Solution |
|---|---|---|---|---|---|
| AMBER | MIN, AC Fail | None | GREEN | Single Rectifier not receiving ac power.<br>AC input circuit breaker has opened.<br>AC input voltage is out of range. | Verify ac power to rectifier is available. Verify rectifier input circuit breaker is closed.<br>If problem not corrected, replace rectifier. |
| RED | MIN, AC Fail<br>MAJ, Multiple AC Fail<br>MAJ, Battery on Discharge | None | GREEN | Multiple rectifiers not receiving ac power,batteries are powering load.<br>AC input circuit breakers have opened.AC input voltage is out of range.<br>Internal rectifier fault. | Verify ac power to rectifiers is available.<br>Verify rectifier input circuit breakers are closed.<br>If problem not corrected, replace rectifier. |
| AMBER orRED | MIN, AC Fail<br>MAJ, Multiple AC Fail | None | GREEN | A rectifier, multiple rectifiers, or the entire system has lost AC and one or more rectifiers have been removed from the system while under this condition. | Verify that ac power to all rectifiers is available. Verify that rectifiers all report good AC.<br>Issue the uninstall equipment under the operations menu for anyrectifier that may have been removed during the AC fail. |

| | | | | | |
|---|---|---|---|---|---|
| RED | MAJ, Battery on Discharge | AC OK<br>DC OK | GREEN | Rectifier output voltage has fallen below the battery on discharge threshold set by the user. | If commercial ac power is present but the system voltage remains low,call your local field representative.<br>Investigate other alarms that may be present such as rectifier related problems. |
| AMBER | MIN, Rectifier Fail[1] | AC OK<br>ALARM[1] | GREEN | Rectifier output has dropped below 36V, rectifier has entered hiccup mode. | Replace rectifier. |
| RED | MAJ, Rectifier Fail | AC OK<br>ALARM[1] | GREEN | All rectifier outputs have dropped below 36V, all rectifiers have entered hiccup mode.<br>Defective controller. | Remove controller; if output voltage does not go to set-point previously set by user, call your local field representative. |
| RED | MAJ, Rectifier Fail[1] | AC OK<br>DC OK | AMBER<br>(Blinking) | One or both of the LVD contactors is open; someone may have manually opened LVD contactor. | Place disconnect switch in ON position. |
| AMBER | MAJ, Contactor1 Open | AC OK<br>DC OK | GREEN | Batteries have exceeded temperature threshold set by user. | Call your local field representative. |
| None | No response. | RED<br>(Blinking) | RED<br>(Blinking) | Controller failure, all devices on the communication bus reporting loss of communication with controller. | Check controller to ensure it is properly inserted into its slot. If so,perform the following steps:<br>Remove the controller board for 1 minute and then reset.<br>If problem persists, replace controller with new controller board. |

1.

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|---|---|---|---|---|---|
| | | | | | If problem still persists, call your local field representative. |

DC OK Blinking on some rectifiers.

## Information – Troubleshooting DC System (2)

| ControllerLED | User Interface Display | Rectifier LED | Distribution Module Card LED | Possible Problem | Possible Solution |
|---|---|---|---|---|---|
| AMBER | MIN, Thermal Probe Fail | AC OK<br>DC OK | GREEN | 1-Wire thermal probe failed. | Ensure thermal probe is properly connected to thermal probe cable.<br>Ensure cable is properly connected to the rear of the Distribution Module.<br>If problem persists, replace thermal probe per ensuing instructions.If problem still persists, call your local field representative. |
| RED | MAJ, Fuse Major | AC OK<br>DC OK | RED | One or more of the output circuit breakers orfuses have opened. | Reset circuit breakers or replace fuse. |
| AMBER | MIN, Rectifier Fail | AC OK<br>ALARM | Normal | Single rectifier thermal alarm:<br>Excessive ambient temperature<br>Multiple rectifier failure | Verify that there is no obstruction of the airflow path.<br>Reset the rectifier by removing the rectifier, waiting approximately 30 seconds, and replacing the rectifier.<br>If problem persists, replace the rectifier.<br>If problem still persists, call your local field representative. |
| AMBER | MIN, Rectifier Fail | AC OK<br>ALARM<br>Blinking | Normal | Single rectifier thermal alarm:<br>Near thermal shutdown<br>Multiple rectifier failure | |
| RED | MIN, Rectifier Fail<br>MAJ, Multiple Rectifier Fail<br>MAJ, Battery on | AC OK<br>ALARM | Normal | Multiple rectifier thermal alarm:<br>Excessive ambient temperature<br>Multiple rectifier failure | |

| | | | | | |
|---|---|---|---|---|---|
| RED | Rectifier Fail<br>MAJ, Battery on Discharge | AC OK<br>ALARM | Normal | Excessive ambient temperature<br>Multiple rectifier failure | field representative. |
| RED | MAJ, High Voltage | AC OK<br>ALARM | Normal | High output voltage from rectifier(s)<br>Rectifier(s) high voltage shutdown<br>Internal rectifier(s) failure | Reset the rectifier(s) by removing the rectifier(s), waiting approximately30s and replacing the rectifier(s).<br>If problem persists, replace the rectifier.<br>If problem still persists, call your local field representative. |
| Amber | MIN, Clock Battery Low | AC OK<br>DC OK | Normal | Internal Lithium Battery Is Low | The battery is not designed to be easily field replaced. The controllerunit needs to be replaced.<br>Obtain all desired information such as alarm history, statistics, andany field configuration that is different than the standard. |
| AMBER | MIN, Minor Communication Fail | RED<br>Blinking<br>Single rectifier | GREEN | Rectifier lost communication with controller. | If a rectifier has been removed from an installed/operational system, go to the Control/Operations menu and execute Uninstall Equipment.<br>Reset the rectifier by removing the rectifier, waiting approximately 30 seconds, and replacing.<br>If problem persists, replace the rectifier.<br>If problem still persists, call your local field representative. |

## Information – Troubleshooting DC System (3)

| ControllerLED | User Interface Display | Rectifier LED | Distribution Module Board LED | Possible Problem | Possible Solution |
|---|---|---|---|---|---|
| RED | MAJ, Major Communication Fail | AC OK DC OK | RED (Blinking) | LVD Board lost communication with the controller. | Replace Distribution Module Board. (Note 2)<br>If problem persists, call your local field representative. |
| GREEN | No Alarm, Individual Shunt Currents displayed at or above their maximum display values (≥600A for loads, ≥800A | AC OK<br>DC OK | Normal | One or both of the QS871A shunt inputs is open-circuit. | Verify that the respective shunt has its green and yellow wire Connections attached used for the current measurements.<br>Verify the shunt connection to the QS871A is good by verifying the green and yellow wire connections from the shunt follows through to the 10-pin connector at the respective QS871A. |
| GREEN | No Alarm, | AC OK<br>Blinking | Normal | AC present, not within operating limits. | Verify AC input voltage.<br>Reset the rectifier by removing the rectifier, waiting approximately 30seconds, and replacing the rectifier.<br>If problem persists, replace the rectifier.<br>If problem still persists, call your local field representative. |
| GREEN | No Alarm, | AC OK<br>DC OK<br>Blinking | Normal | Rectifier Over Load - Current or Power (Normal during battery recharge following discharge.) | If problem persists: Reset the rectifier by removing the rectifier, waiting approximately 30 seconds, and replacing the rectifier.<br>If problem persists, replace the rectifier.<br>If problem still persists, call your local field representative. |
| GREEN | No Alarm, | AC OK | Normal | Rectifier Standby<br>(Normal during some conditions depending on controller settings.) | Verify controller settings.<br>If problem persists: Reset the rectifier by removing the rectifier, waiting approximately 30 seconds, and replacing the rectifier.<br>If problem persists, replace the rectifier.<br>If problem still persists, call your local field representative. |

1. While in hiccup mode, the rectifier will attempt to restart every 10 seconds for a maximum of 3 times.

2. Refer to Pulsar Edge Controller Family Product Manual for LVD board removal details.

The power system will continue to power the load while the LVD board is out of the system; however, there will be no possibility of battery backup until the LVD board is replaced.

**Information – Troubleshooting Battery Module**

| ControllerLED | User Interface Display | Battery Module LED | Possible Problem | Possible Solution |
|---|---|---|---|---|
| AMBER or RED | | AMBER or RED | | Call your local field representative. |
| None | No response. | RED (Blinking) | Controller failure, all devices on the communication bus reporting loss of communication with controller. | Check controller to ensure it is properly inserted into its slot. If so, perform thefollowing steps:<br>Remove the controller board for 1 minute and then reset.<br>If problem persists, replace controller with new controller board.If problem still persists, call your local field representative. |

ABB
601 Shiloh Rd.
Plano, TX USA
abbpowerconversion.com

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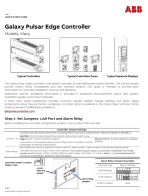
## FAQ

**Q: How do I reset the default settings on the Galaxy Pulsar Edge Controller?**
A: To reset default settings, refer to the Quick Start Guide Supplement for specific instructions related to Default Voltage Settings and Alarm Signal assignments.

# Documents / Resources

| | |
|---|---|
|  | ABB Many Galaxy Pulsar Edge Controller [pdf] User Guide<br>Many Galaxy Pulsar Edge Controller, Many, Galaxy Pulsar Edge Controll er, Pulsar Edge Controller, Edge Controller |

### References

- User Manual

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DURATECH DLM-450 Controller BOX CONTENT ASSEMBLY Propulsion Systems bv - Dooren 72 - 1785 Merchtem, Belgium - T…

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