

GP100 Rectifier Backplane

150044268 (J2014001L901)



Step 2 - Mount Backplane

Attach the backplane to the frame/rack using a 6 (three on each side) 12-24 screws (provided). Torque to 35 in-lb - 5/16" socket.



Step 3 - Connect DC Output

DC lug landings are at the top rear, under the cover.

There are no DC output protectors in the shelf.

DC Output - 115A max.

Lug Landings - 10-32 on 5/8" centers

- 1. Remove cover 8 screws if not removed in step 1.
- 2. Connect wires with suitable lugs to POS and NEG lug landings.Install. Torque to 30 in-lb (3.4 Nm).
- 3. Install cover 4 screws.



Step 4 - Connect AC Input

-	-										
Each Rectifier:	380 Vac at 10 A	or	480Vac at 8 A.								
Danger: Turn OFF and lock-out tag-out the AC source before making AC connections or working on the backplane. When connecting to AC mains, follow all local and national wiring rules.											
Caution: When routing AC ensure cables do not come in contact with sharp or rough surfaces that may damage insulation and cause a short circuit.											
External AC protector - 30A max.											
AC Cable termina	tion - Phoenix 3200)535 term	inals.		Green	Ground					
1. Assemble suit	able connector hou	using onto	AC cable or cut pins off as require	d.	Black	Phase A					
2 Connect back	plane AC cable to 7		c 3-phase		Red	Phase B					
2. 00111001 0001					White	Phase C					

Step 5 - Connect Signals

Connect per engineering instructions.

Connections are to HDR20 "DATA" at the rear of the backplane.

Signal Details: See GP100 Global Platform Line High Efficiency Rectifier Data Sheet

Signal Connector: Housing - Molex 43025-2408 Contacts - Molex Female Terminal series 46235.

Signals - HDR20 "DATA"												
Pin	Signal		Pin	Signal		Pin	Signal		Pin	Signal		
1	SDA0		7	REMOTE ON/OFF1		13	SCL1		19	STBY_TRIM		
2	ALERTO#		8	VPROG		14	LOGIC_GND		20	MOD_PRES		
3	LOGIC_GND		9	PFW		15	ALERT1		21	FAULT		
4	SDA1		10	ISHARE		16	SCL1		22	8V_INT		
5	LOGIC_GND		11	N/C		17	I2CA1_A3 (Rack_ID)		23	PROTOCOL		
6	5VA		12	RS485-		18	5VA		24	RS485+		



1. REMOTE ON/OFF input is enabled only when HDR22 is set to OFF.

Step 6 - Install Rectifier

Caution: Equipment Damage

Turn AC power OFF to the backplane before installing or removing rectifiers to avoid damage to the rectifier. This backplane does not support hot plug in of rectifiers.

- 1. Verify AC to backplane is OFF.
- 2. Slide Rectifier firmly into a Rectifier position oriented as shown. Assure that the rectifier is fully mated with the backplane connector before applying AC power

Information pro_GUI Connections

pro_GUI Connections are to HDR1 and HDR2



Specifications and Application

- Specifications and engineering information are in the GP100 Global Platform Line High Efficiency Rectifier Data Sheet available at www.gecriticalpower.com
- External Surge Protective Devices (SPDs) are required on all AC inputs. Equipment Safety is Approved in IEC 60664-1 Installation Category II environments.
- Equipment and subassembly ports: 1. are suitable for connection to intra-building or unexposed wiring or cabling; 2. can be connected to shielded intra-building cabling grounded at both ends.
- Grounding / Bonding Network Connect to an Isolated Ground Plane (Isolated Bonding Network) or an Integrated Ground Plane (Mesh-Bonding Network or Common Bonding Network).
- Installation Environment Service Access area only.
- DC return may be either Isolated DC return (DC-I) or Common DC return (DC-C). DC output can either be isolated or either side could be connected to frame ground for reference.

Reference Documents

GP100

These documents are available at <u>www.gecriticalpower.com</u>.

Document Title

GP100 Global Platform Line High Efficiency Rectifier Data Sheet

Drawings and other engineering information is available - contact Technical Support at 1-888 546-3243 or PE.TechSupport@ge.com .

GP100 Rectifier Backplane - Install Guide

Document 850048307 r01 2015 November

Safety Statements

- Do not install this equipment over combustible surfaces.
- Rules and Regulations Follow all national and local rules and regulations when making field connections.
- Compression Connectors
 - U. S. or Canada installations use Listed/Certified compression connectors to terminate Listed/Certified field-wire conductors where required.
 - All installations apply the appropriate connector to the correct size conductor as specified by the connector manufacturer, using only the connector manufacturer's recommended or approved tooling for that connector.
- Electrical Connection Securing: Torque to the values specified on labels or in the product documentation.
- Cable Dress dress to avoid damage to the conductors and undue stress on the connectors.
- Fuses and Circuit Breakers Size as required by the National Electric Code (NEC) and/or local codes. Refer to the equipment ratings to assure current does not exceed: Continuous Load (List 1) - 60% of protector rating
 - Maximum Load (List 2 typically end of discharge) 80% of protector rating.
- Field-wired Conductors Follow all National Electric Code (NEC) and local rules and regulations .
 - Size AC field-wired conductors with 75°C ampacity (NEC) equal to or greater than their panel board circuit breaker rating.
 - Insulation rating: 90°C minimum; 105°C (minimum) if internal to enclosed equipment cabinets.
- AC and DC input disconnect/protection Provide accessible devices to remove input power in an emergency.
- Alarm Signals Provide external current limiting protection. Rating 60V, 0.5A unless otherwise noted.
- Grounding Connect the equipment chassis directly to ground. In enclosed equipment cabinets connect to the cabinet ac service ground bus. In huts, vaults, and central offices connect to the system bonding network.
- Circuit Breakers and Fuses Use only those specified in the equipment ordering guide.
- GMT Style Fuses Use only fuses provided with safety caps.

Precautions

- Install, service, and operate equipment only by professional, skilled and qualified personnel who have the necessary knowledge and practical experience with electrical equipment and who understand the hazards that can arise when working on this type of equipment.
- Disconnect batteries from outputs and/or follow safety procedures while working on equipment. Batteries may be connected in parallel with the output of the rectifiers. Turning off the rectifiers will not necessarily remove power from the bus.
- Do not disconnect permanent bonding connections unless all power inputs are disconnected.
- Verify that equipment is properly safety earth grounded before connecting power. High leakage currents may be possible.
- Exercise care and follow all safety warnings and practices when servicing this equipment. Hazardous energy and voltages are present in the unit and on the interface cables that can shock or cause serious injury. When equipped with ringer modules, hazardous voltages will be present on the ringer output connectors.
- Use the following precautions in addition to proper job training and safety procedures:
 - Use only properly insulated tools.
 - Remove all metallic objects (key chains, glasses, rings, watches, or other jewelry).
 - Follow Lock Out Tag Out (LOTO) procedures: customer specified, site specific, or general as appropriate. Disconnect all power input before servicing the equipment. Check for multiple power inputs.
 - Wear safety glasses.
 - Follow Personal Protective Equipment requirements: customer specified, site specific, or general as appropriate.
 - Test circuits before touching.
 - Be aware of potential hazards before servicing equipment.
 - Identify exposed hazardous electrical potentials on connectors, wiring, etc.
 - Avoid contacting circuits when removing or replacing covers;.
 - Use a personal ESD strap when accessing or removing electronic components.
- Personnel with electronic medical devices need to be aware that proximity to DC power and distribution systems, including batteries and cables, typically found in telecommunications utility rooms, can affect medical electronic devices, such as pacemakers. Effects decrease with distance.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rack Mount Power Supplies category:

Click to view products by ABB manufacturer:

Other Similar products are found below :

 G08-M02
 HFE2500BP
 PET1300-12-054NAE
 HFE1600BP
 RKP-1UT
 73-311-0001
 73-317-0148
 73-495-0233
 750-1016
 SFP450-S101G

 FUP550SNRPS
 VRA.00335.0
 VRA.00334.0
 VRA.00333.0
 HFE1600-KIT
 CP841A_3C3R_S
 CC109146503
 RKP-1UI
 PFE1100-12-054ND

 FND300-1012G
 73-951-0001T
 73-954-0001C
 DS550DC-3
 RCP-2000-24
 TSR10
 TET2000-12-086NA
 PET2000-12-074RA
 RCP-MU
 605

 10144-2AC
 6609006-5
 D1U54P-W-1200-12-HC4PC
 DS650DC-3
 LCM300W-T-4
 LCM600N-T-4-A
 FNP600-48G
 FNR-3-48G
 FNR-5-12G

 SPSPFE3-05G
 TET3200-12-069RA
 IEC-A-1
 DHP-1UT-A
 DRP-3200-24
 RCP-1000-12
 RCP-1000-24
 RCP-1000-24-C

 RCP-1000-48
 RCP-1000-48-C
 RCP-1600-12
 RCP-1600-48
 RCP-1000-24-C
 RCP-1000-24-C