

Compact Power Line

48V DC Critical Power Solution

The Compact Power Line platform is designed to provide highly reliable DC power for 48V distributed power architectures. A single shelf configuration provides up to 11kW of 48V output power in 1U high and mounts in 19-inch or 23-inch wide frames. The CPL product platform is easily expandable for future growth. CPL is a reliable DC power solution for mission-critical enterprise and telecommunications network equipment.

Shelf Options

The CP product line provides several shelf options with common or split DC output configurations. There are two families of CPL shelves; one used with a Pulsar Edge controller, the other used without a controller or with a customer's own controller using I²C communications. J85480S1 shelves have four slots for rectifiers or converters (PEMs) and use I²C for communications. J2007001 shelves have four slots with space for a full-feature Pulsar Edge Controller. The Pulsar Edge controller has Ethernet connectivity to facilitate remote network management to monitor and control rectifiers, batteries, and distribution. CPL is ideal for a broad range of applications requiring highly efficient 48V DC power.

Rectifier Options

CP2000 and CP2725 rectifiers are single phase, constant power rectifiers that provide 2000 Watts and 2725 Watts (respectively) of highly reliable DC power. The constant output power characteristics,

extended temperature range, universal AC input, and compact size are key attributes that make this rectifier the right choice for your power needs.

Pulsar Edge Controller

CPL features the Pulsar Edge controller delivering large system intelligence in a small system form factor. Ethernet connectivity with SNMP facilitates remote network management.

Features and Benefits

Reliability

- Proven field performance
- Advanced alarming
- N+1 modularity

Intelligence

- Industry leading controller features
- Ethernet interface for remote access
- Centralized network management

Investment Protection

- Minimal space requirements
- Versatile configurations
- Efficient operation

On Time Delivery

- Standard building blocks
- 8-16 week availability
- 24/7 support



- Compact 48V DC distributed power system
- Efficiency approaching 97%
- Maximum power in minimal space
- Scalable to 80 kW
- Powering enterprise and telecommunications networks



CPL Power Supplies



The CPL series of rectifiers are specifically designed to operate as an integral part of a complete distributed power system or can be easily integrated into an OEM design. The high-density, front-to-back airflow rectifier is designed for minimal space utilization and is highly expandable for future growth.

The power modules are available with many features including PoE isolation, RS485 communications bus for use with GE battery plant controllers in forming an energy reserve system and redundant I²C communications bus for use with a customer's controller. This flexible and sophisticated feature set makes this front-end power supply an excellent choice for power in a variety of application spaces.

Applications

- Enterprise networks
- OEM Telecom equipment
- Power over Ethernet
- VoIP/soft switches
- SAN/NAS/iSCSI applications
- LAN/WAN/MAN applications
- Indoor wireless
- Routers and switches

Key Features

- Compact 1RU form factor
- PMBus compliant dual I²C and RS485 serial bus communications
- Front panel LED indicators
- Internal variable-speed fan control
- Constant power; 52 – 58 Vdc
- Programmable output voltage; 44 – 58 Vdc
- Universal AC input
- PoE compliant versions available
- CE marked
- RoHS 6 compliant
- Hot pluggable

Specifications

AC-DC Power Supplies		
Input	2000	2725
Voltage Range - Low-Line - High-Line	120Vac Nominal (1200W) 208, 240, 277Vac Nominal	
Input Frequency	47 – 63 Hz	
Input Current	11.9 Arms @ 110Vac 13.1 Arms @ 240Vac	
Inrush Transient	25Apk Typical	
Power Factor	0.98 from 50% to 100% Load	
Holdup Time	20ms ¹ , 30ms ^{**}	
EMI/EMC	Exceeds FCC and CISPR22 (EN55022) - Class A	

¹ measurement starts at zero crossing of the ac voltage, and voltage devayed to 40V

² for loads below 1200W

AC-DC Power Supplies		
Output	2000	2725
Voltage Default	54Vdc	
Voltage Adjust Range - Hardware set via margin pin - I ² C or RS485 set	44-58Vdc 42-58Vdc	
Rated Output Current - Low Line - High Line	25 ¹ 38.4 ²	25 ¹ 52.4 ²
Rated Output Power - Low Line - High Line	1200W ³ 2000W ⁴	1200W ³ 2725W ⁴
Psophometric Noise	9mVrms5	
Ripple (5Hz to 20MHz) - RMS - Peak to Peak	100mVrms max 250mVp-p max	
Over Voltage Protection - Delayed - Immediate	60Vdc 60Vdc	
Over Temperature - Warning - Shutdown	5C 20C	
PoE Isolation	Optional	Optional

¹ at 1200W, 54V @ 100-120Vac

² at full power @ 52V @ 200-240Vac

³ at low line input from nominal 100-120Vac

⁴ at high line input from nominal 200-277Vac

⁵ Complies with ANSI TI.523-2001 section 4.9.2 emissions max limit of 20mV flat unweighted wideband noise limit

DC-DC Power Supplies		
Output	2000	2500
Voltage Range	-40 to -72 Vdc	
Input Current	60Adc max	75Adc max
Inrush Current	60Adc max	100Adc max
Holdup Time	6ms	
EMI/EMC	Exceeds FCC and CISPR22 (EN55022) - Class A	

DC-DC Power Supplies		
Output	2000	2500
Voltage Default	54Vdc	
Voltage Adjust Range	44 - 58 Vdc	
Rated Output Current	0.1 to 37A	0.1 to 46.3A
Rated Output Power	2000W	2500W
Ripple (5Hz to 20MHz) - RMS - Peak to Peak	250mVrms 500mVpk-pk	
Over Voltage Protection - Delayed - Immediate	60Vdc 65Vdc	
Over Temperature - Warning - Shutdown	5C 20C	
PoE Isolation	Yes	Yes

All AC-DC models and All DC-DC models

Mechanical	
Length (in./mm)	13.85 / 351.2
Width (in./mm)	4 / 101.6
Height (in./mm)	1.63 / 41.4
Weight (lb / kg)	5 / 2.27

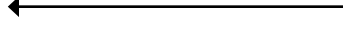
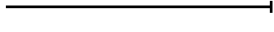
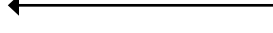
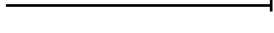
Environmental	
Operating Temperature	-40°C ¹ to +75°C (-40°F to 167°F)
Storage Temperature	-40°C to +85°C (-40°F to 185°F)
Power De-Rating	> +55°C (derates @ 2% per °C)
Relative Humidity	95% max, non-condensing
Altitude	4,000m max (13,000 ft)
Audible Noise	55dBA, typical

¹ Designed to start at an ambient as low as -40°C but may not meet operational limits until above -5°C.

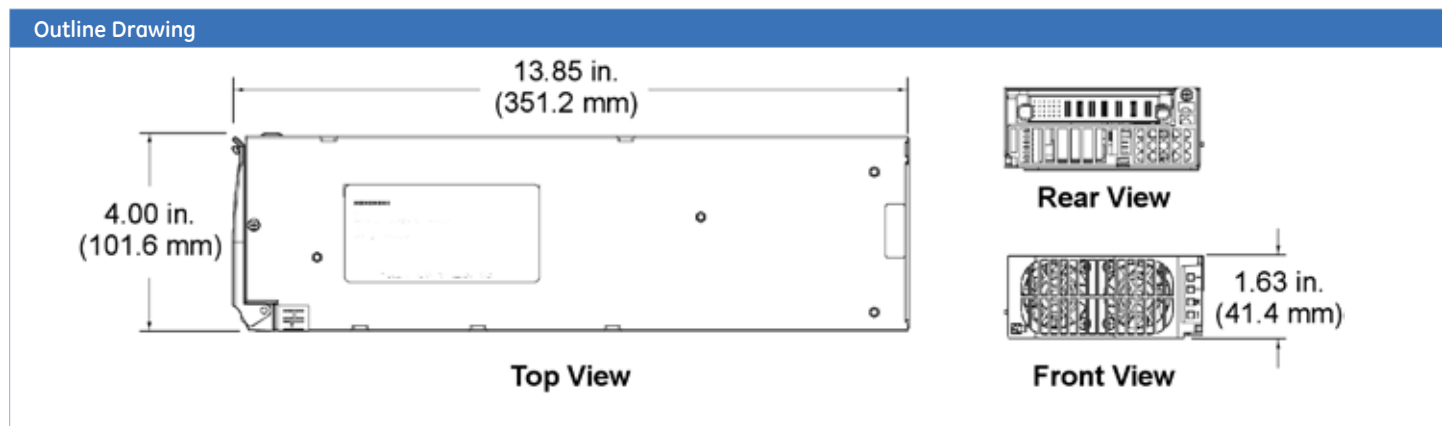
General	
Cooling	Internal variable speed fan cooled
Efficiency	90% @ 100 Vac (Vout>52V, Pout>50%) 93% @ 230 Vac (Vout>52V, Pout)
Heat Dissipation	AC-DC 2725 -> 151W / 514 BTU 2500 -> 138W / 471 BTU 2000 -> 110W / 375 BTU
	DC-DC 2500 -> 220W / 751 BTU 2000 -> 176W / 601 BTU

Safety and Standards Compliance	
Zone 4	Per Telcordia GR-63-CORE, all floors when installed in CPL shelf
Safety	CE mark to Low Voltage Directive 2006/95/EC UL 609501-1 Recognized CAN/CSA C22.2 No. 60950-1-03 Certified VDE 0805-1 Licensed to IEC60950-1
RoHS	Compliant to RoHS EU Directive 2002/95/EC
EMC	FCC and CISPR22 (EN 55022) Class A
ESD	EN/IEC 61000-4-2 Level 3

Front Panel LEDs

Symbol	Analog Mode	I ² C Mode	RS485 Mode
			On: Input OK Blinking: Input out of limits
			On: Output OK Blinking: Overload
	On: Over-temperature warning	On: Over-temperature warning Blinking: Service	On: Over-temperature warning
	 On: Fault		On: Output OK Blinking: Overload

Dimensions



Pulsar Edge Controller (For Applications in J2007001 shelves)



The CPL Pulsar Edge controller delivers large system intelligence in a small system form factor. This family of controllers functions as a network interface controller (NIC) and as a full-featured battery plant controller to the Compact Power Line (CPL) platform. Its thin modular plug-in form factor minimizes shelf space consumption allowing maximum power module and distribution capabilities yet provides features found in controllers used in much larger power systems.

The Pulsar Edge CP841A controller is utilized in bulk power applications in data centers and enterprise applications. Ethernet connectivity with SNMP facilitates remote network management access through its front-accessible RS232 or USB port and is aided by the EasyView2 graphical user interface.

As a battery plant controller, it provides a complete set of features to monitor and control rectifiers, batteries, and distribution. A flexible set of configurable inputs allow the CP841A to monitor a wide variety of system equipment and incorporate appropriate state information enabling a centralized point of management.

The controller utilizes standard network management protocols allowing for advanced network supervision. GE Galaxy Manager* software is the centralized visibility and control component of a comprehensive power management system designed to meet engineering, operations, and maintenance needs. The Galaxy Manager client-server architecture enables remote access to system controllers across the power network.

Applications

- Enterprise Networks - Voice, Data, PoE
- Telecommunications networks
- Transmission equipment
- Fiber in the loop
- Routers/switches
- Data networks
- PBX

Key Features

Remote Access and Features

- Integrated 10/100Base-T Ethernet Network
 - TCP/IP
 - SNMP V2c for management
 - SMTP for email
 - Telnet for command line interface
 - DHCP for plug-n-play
 - FTP for rapid backup and upgrades
 - HTTP for standard web pages and browsers
 - Compatible with Galaxy Manager and other management packages
 - Shielded RJ-45 interface referenced to chassis ground
- Password protected security levels: User, Super-User, Administrator for all access
- Ground-referenced RS232 system port
- ANSI T1.317 command-line interface
- Modem access support
 - Remote via external modem
 - Callback security
- EasyView2, Windows-based GUI software for local terminal or Modem access

Standard System Features

- Monitor and control of more than 40 connected devices
 - Maximum of 32 rectifiers
 - Maximum of 6 distribution control cards
 - Robust RS485 system bus
- Standard and user defined system alarms
 - Alarm test
 - Assignable alarm severity: Critical, Major, Minor, Warning, and Record-only
- Rectifier management features
 - Automatic rectifier restart
 - Active Rectifier Management (energy efficiency)
 - Remote rectifier (on/off)
 - Reserve Operation
 - Automatic rectifier sequence control
 - N + X redundancy check
- Multiple Low Voltage Load and Low Voltage Battery Disconnect thresholds (4)
- Configuration, statistics, and history
 - All stored in non-volatile memory
 - Remote/local backup and restore of configuration data
- Industry standard defaults
 - Customer specific configurations available
- Remote/ local software upgrade
- Basic, busy hour, and trend statistics
- Detailed event history
- User defined events and derived channels

Standard Battery Management Features

- Float/boost mode control
 - Manual boost
 - Manual timed boost locally, T1.317, and remotely initiated
 - Auto boost terminated by time or current
- Battery discharge testing
 - Manual (local/remote)
 - Periodic
 - Plant Battery Test (PBT) input driven
 - Configurable threshold or 20% algorithm
 - Graphical discharge data
 - Rectifiers on-line during test
- Slope thermal compensation
 - High temperature
 - Low temperature
 - Step temperature
 - STC Enable/Disable, low temperature Enable/Disable
 - Configurable mV/°C slopes
- State of charge indication
- High temperature disconnect setting
- Reserve-time prediction
- Recharge current limit
- Emergency Power-Off input

* See next page for Galaxy Manager description

Integrated Monitoring Inputs/Outputs

- System plant voltage (accuracy $\pm 0.5\%$, resolution 0.01V)
- One system shunt (accuracy $\pm 1\%$ full scale, resolution 1A)
 - Battery or load
 - Mounted in the return side of DC bus
- Up to 15 binary inputs
 - Six inputs close/open to battery
 - 9 input close/open to return (number is dependent upon number of output alarms)
 - User assignable
- Up to 5 user assignable Form-C output alarms (50VDC @ .3A)
- 1-Wire* bus devices
 - Up to 16 temperature probes (QS873)
 - Up to 6 mid-string monitors (ES771)

General	
Operating Voltage	± 24 Vdc, ± 48 Vdc (Range: ± 18 to ± 60 Vdc)
Input Power	Less than 7W
Operating Temperature Range	-40°C to +75°C (-40°F to 167°F)
Storage Temperature Range	-40°C to +85°C (-40°F to 185°F)
Operating Relative Humidity	0 - 95% (non-condensing)
Physical Specifications	1.75 in. H, 0.75 in. W, 8.00 in. D; 0.5lb 45mm H, 20mm W, 204mm D; 227g
Display	8-line by 40-character backlit LCD

Galaxy Manager Compatible

- Centralized web server and database with multiple user access to live or managed data with drill down to problem details
- Monitor and control of more than 40 connected devices
- Management information from polling or alarms received from alarm traps from multiple sites are available on one screen via the inter/intranet
- Trend user selected data over time
- Automatic or manual report generation
- Standard engineering tools like reserve time calculators and cable voltage drop analyzer

Agency Certifications	
Radiated Emissions	FCC, Class B; EN 55022, Class B
Safety	UL Unlisted Component as Part of CPL or SPS Power System
RoHS	Compliant to RoHS EU Directive 2002/95/EC
EMC	FCC/EN55022 Class B, CISPR22 Level B
ESD	EN 61000-4-2 level 4

Ordering Information – Compact Power Line

48V DC Critical Power Solution

The Compact Power Line platform is designed to provide highly reliable DC power for 48V distributed power architectures. When embedded into an OEM design, GE can support the integration into the OEM design. Otherwise an external shelf can be used to provide power. A single shelf configuration provides up to 11kW of 48V output power in 1U high and mounts in 19-inch or 23-inch wide frames. The CPL product platform is easily expandable for future growth by stacking multiple shelves. CPL is a reliable DC power solution for mission-critical enterprise and telecommunications network equipment.

Features – Model J85480S1

- Fits into a standard 19" rack
- Two DC Outputs may be common or split. Each output bus is rated for 100A with two-hole lug landings for 2 AWG wire.
- Choose between IEC-320 C13 or C19 or other AC input connections.
- Analog or dual/redundant I²C communications.
- Adjustable mounting ears for near flush front or multiple set back positions.

Features – Model J2007001

- Fits into a standard 19" rack
- Single DC output rated for 200A with two-hole lug landings for up to 2/0 AWG cable.
- Choose between IEC-320 or Molex Mini-Fit SR for AC input. Single, dual or quad input feeds
- RS485 communications.
- Adjustable mounting ears with multiple set back positions.
- Up to 3 shelves may be interconnected with bus straps for DC outputs for a 600A system
- Plug-N-Play CP841A controller with front access craft port, rear access LAN and alarm connections
- Select Shelves include distribution modules

The CPL product line provides several shelf options. J85480S1 shelves have four slots for either rectifiers or converters (PEMs). These shelves are primarily used without a controller or with a customer's controller using I²C communications. J2007001 shelves have four slots with space for a full-feature Pulsar Edge Network Interface Controller (NIC). The Pulsar Edge controller has Ethernet connectivity with SNMP to facilitate remote network management to monitor and control rectifiers, batteries, and distribution. These shelves are used with either shelf mounted distribution or external distribution panels for small battery plant applications.



J2007 Rectifier Shelf



J2007 Converter Shelf

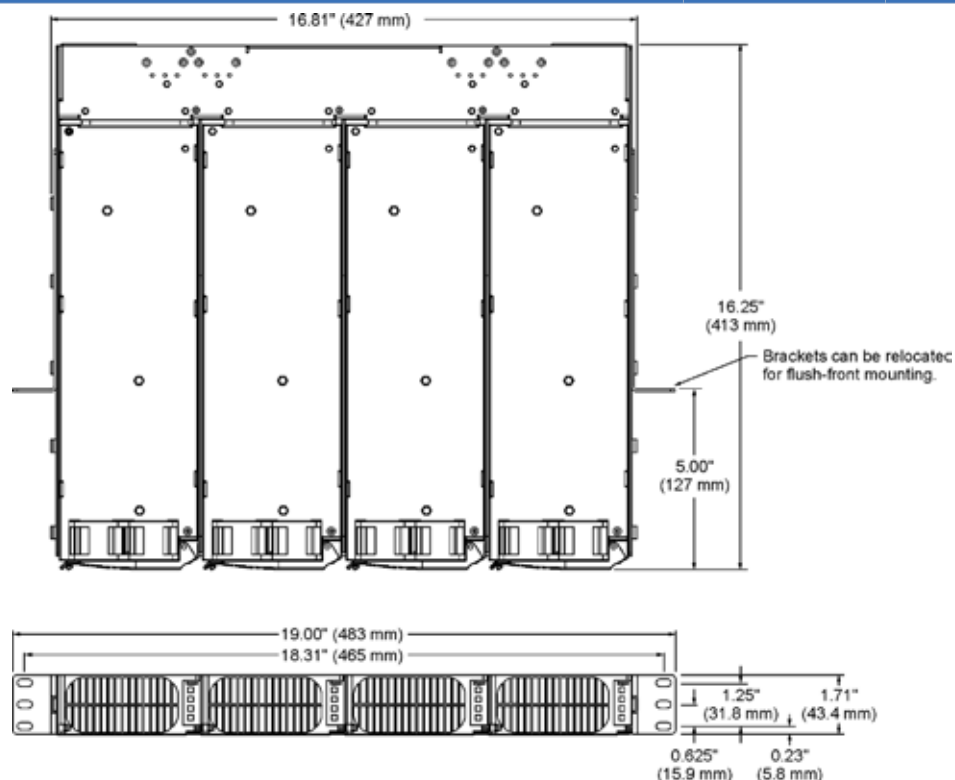


J85480 Rectifier Shelf



J85480 Converter Shelf

Shelf Line Drawing – J85480S1Shelves



J85480S1 Shelf Options

List	Max Power	DC Input Plug	DC Output		Max Power Supply	Features		Order Code
			Bus	Termination		Setpoint	Other	
14	10kW	Qty 2 (1 per 2 rectifiers)	split	DH Lugs	CP2500DC	(+) 48Vdc	POE, Analog, I ² C	CC109124764



List	Max Power	AC Input Plug	DC Output		Max Rectifier Size	Features		Order Codes
			Bus	Termination		Setpoint	Other	
20	11kW	IEC-320, C19	Common	DH Lugs	CP2725	(+) 54Vdc	Analog, I ² C	CC109147344
21			Split			-54Vdc		CC109147328
23	8kW	IEC-320, C13	Common		CP2000	(+) 54Vdc	POE, Analog, I ² C	CC109150447



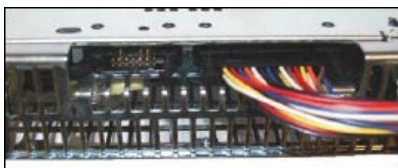
Notes:

- List 25 shelves are preprogrammed to be always ON. Either polarity can be grounded.
- Split shelves L21 and Vout (-) is split, however Vout (+) is paralleled among the 4 rectifiers. Vout (+) should be grounded.
- All lists, up to 2 shelves can be paralleled for a single I²C line. Up to eight shelves may be paralleled for current shared power delivery.
- All lists, shelf configured set point ensures inter-operability among all rectifiers from CP2000 to CP2725. Rectifiers will proportionately current share relative to their output power capacity.
- All Shelves are RoHS 6 compliant. Order should reflect J85480S1LxxZ where xx is the list number and Z indicates compliance to RoHS 6.

DC Output Types – J85480S1 Shelves

Description	Schematic
Common Output Bus for Terminal Lug Connection	
Each Lug Connection rated for 100A with 2 gauge wire (200A for shelf)	
Split Output Bus for Terminal Lug Connection	
- Vdc(-) has Split buses Vdc(+) is common to both sections. - Each bus may be independently controlled - Multiple shelves may not be paralleled together. - Each Lug Connection rated for 100A with 2 gauge wire (200A for shelf)	

Communication Signals – J85480S1 Shelves

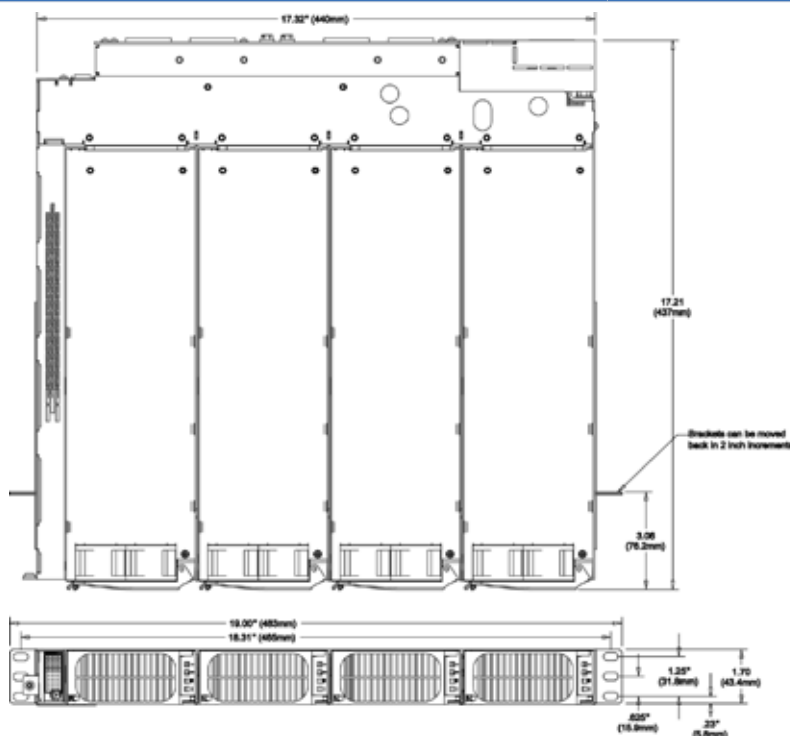


J1 CONNECTOR – Pin Out			
Pin	Signal	Pin	Signal
1	POWER_CAP_1	16	SDA_1
2	POWER_CAP_2	17	Fault
3	POWER_CAP_3	18	Alert#_0
4	POWER_CAP_4	19	Enable side B
5	MOD_PRES_1	20	Logic_GRD
6	MOD_PRES_2	21	Enable Side A
7	MOD_PRES_3	22	Logic_GRD
8	MOD_PRES_4	23	Alert#_1
9	PFW_1	24	5VA
10	PFW_2	25	OTW
11	PFW_3	26	Reset
12	PFW_4	27	Iso. barrier n/c
13	SCL_0	28	Iso. barrier n/c
14	SCL_1	29	Shelf_Addr_B
15	SDA_0	30	Shelf_Addr_A



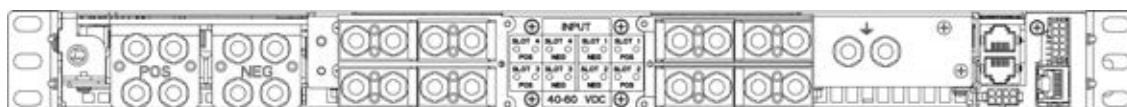
J2 CONNECTOR – Pin Out			
Pin	Signal	Pin	Signal
1	SCL_0	8	Alert#_1
2	SCL_1	9	Isolation n/c
3	SDA_0	10	Isolation n/c
4	SDA_1	11	Ishare - B
5	Alert#_0	12	Ishare - A
6	5VA	13	8V_INT - B
7	Logic_GRD	14	8V_INT - A

Shelf Line Drawing – J2007001 Shelves



J2007001L14 DC PEM Shelf Options

List	Max Power	DC Input Plug	DC Output		Max Power Supply	Features		Order Code
			Bus	Termination		Setpoint	Other	
14	10kW	2 x ¼-20 x 5/8 in DH Lug	Common	2 x ¼-20 x 5/8 in DH Lug	CP2500DC	Variable, set by Edge Controller	RS485	CC109157657



J2007001 Shelf Options

List	Max Rectifier Size	AC Input	DC Output	Rear View of Shelf
3	2725 Watts	Single AC feed (terminal blocks for 6ga wire and ¾" conduit fitting)	DC output bus is rated for 200A for two 2ga or one 2/0 gauge two-hole lugs (¼-20 studs on 5/8" centers).	
4	2725 Watts	Individual feed (Molex Mini-Fit SR)		
6	2725 Watts	Individual feed (IEC-320 C19 Cords)		

Notes:

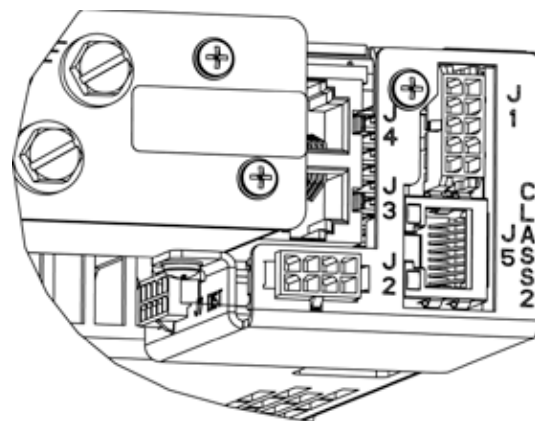
- CP841A Pulsar Edge Controller ships separately.
- Up to 3 shelves may be interconnected.

J2007001 Shelves System Controller Overview

Edge Controller		
CP841A_3C3R	J1 has 3 alarm inputs with a common return and 3 output relays; Power Major, Power Minor, 1 Selectable	

Communication Signals for J2007001 Shelves

- J1 provides alarm outputs and inputs based on the controller installed (see table below). Inputs are "Dry", no voltage, contact Closures or Opens to a common return on pin 6. Outputs are relay contacts. Both input and output alarms are customer defined on the controller's web pages.
- J2 provides alarm inputs (see table below). Alarm inputs are contact Closures or Opens to the non-grounded side of the dc bus [-48V]. Pins 6, 7, 8 provide -48V for these alarm inputs.
- J3 battery thermal probe (QS873A) or battery mid-string voltage monitor (ES771) with battery thermal probe.
- J4 shelf to shelf communication connection
- J5 LAN/Ethernet.
- J7 provides distribution control for shelves with external distribution. See table below.



J1 CONNECTOR – Pin Out		
Pin	Signals for SPS841A_3C3R	Signals for SPS841A_0I5R
1	ALM1 Input	Alarm Relay 3 Rtn
2	ALM2 Input	Alarm Relay 2 Rtn
3	Alarm Relay 1 Rtn	Alarm Relay 1 Rtn
4	Power Minor Rtn	Power Minor Rtn
5	Power Major Rtn	Power Major Rtn
6	ALM1, 2, 6C RTNS	Alarm Relay 3
7	ALM6 Input	Alarm Relay 2
8	Alarm Relay 1	Alarm Relay 1
9	Power Minor	Power Minor
10	Power Major	Power Major

J2 CONNECTOR	
Pin	Signal
1	ALM6 Input
2	-
3	ALM3 Input
4	ALM4 Input
5	ALM5 Input
6	-48V
7	-48V
8	-48V

J7 CONNECTOR	
Pin	Signal
1	FAJ
2	Coil Rtn
3	LVD_NC
4	LVD_NO
5	Shunt-
6	OS
7	Coil1
8	Coil2
9	LVD Status Rtn
10	Shunt+

Battery Monitoring

Temperature/Voltage probes are needed for battery monitoring. They are connected to each battery or battery string to provide slope thermal compensation, temperature alarms and voltage imbalance alarms. Refer to ordering guide for diagram and part numbers.

J85480S1 Shelf Ordering Guide

Mounting Brackets	
1U bracket for 23" frame mount	CC848844803
2U bracket for 23" frame mount	848683009
Wall mount bracket	CC848864504

Communication Cables	
10' Communication Cable (J1)	CC848854034
Shelf to shelf communication cable (J2)	CC848848952

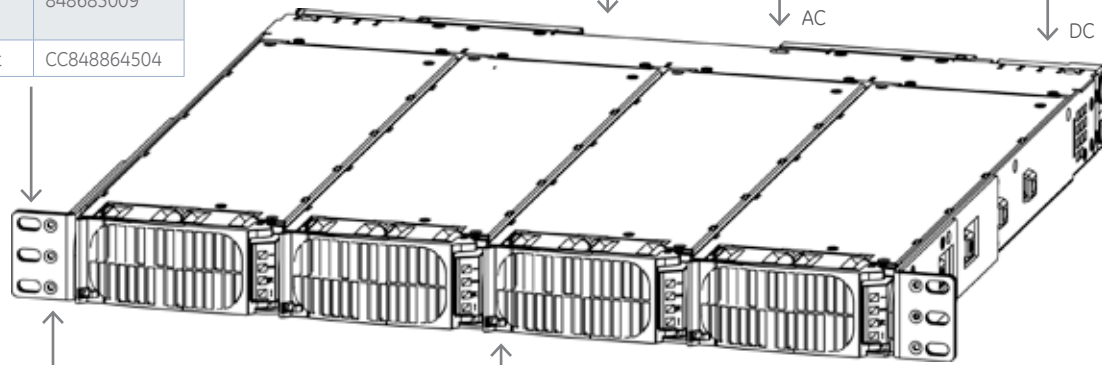
AC Input, DC Output Cables	
C13 plug with 5-15P plug, 10'	CC848776105
C13 plug with L6-20P plug, 10'	CC848820317
C13 plug, unterminated, 10'	847861192
C19 plug, with 5-15P plug, 8'	CC848850792
C19 plug, with L6-20P plug, 8'	CC848850842
C19 plug, unterminated, 8'	CC848847368
DC output cable, 2 GA, 10'	848748987

Rectifier Shelf Options	
List 20	CC109147344
List 21	CC109147328
List 23	CC109150447

For more options see page 7

Rectifier	
CP2000AC54TEZ	CC109158440
CP2000AC54TEP	CC109167565
CP2725AC54TEP	CC109167532
CP2725AC54TEZ	CC109149423

Rectifier Slot Filler	
Central Office White	CC848822263



J85480S1 Converter Shelf Ordering Guide

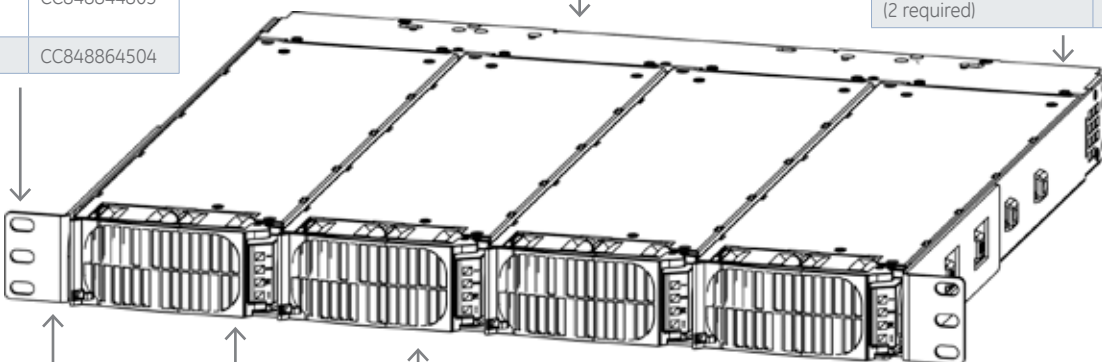
Mounting Brackets	
1U bracket for 23" frame mount	CC848844803
Wall mount bracket	CC848864504

DC Input Cables	
DC input cable, 10 GA, 4'	CC848794908

DC Output Cables	
DC output cable, 2 GA 10'	848748987
DC Bus for 1/4" Faston Connections (2 required)	CC848886192

Converter Shelf Options	
List 14	CC109124764

Converter (PEM) Options	
CP2000DC54PEZ	CC109162104
CP2500DC54PEZ ¹	CC109170528
Rectifier Slot Filler	
Central Office White	CC848822263

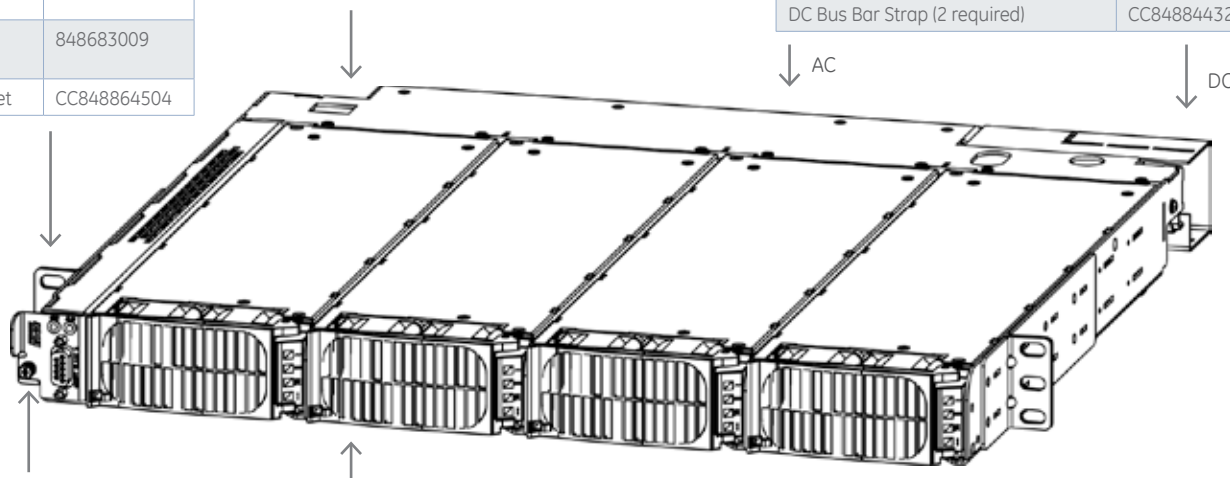


J2007001 Shelf Ordering Guide

Mounting Brackets	
1U bracket for 23" frame mount	CC848844803
2U bracket for 23" frame mount	848683009
Wall mount bracket	CC848864504

Alarm and Communication Cables	
15' Alarm or distribution cable (J1 or J7)	CC848865980
50' Alarm or distribution cable (J1 or J7)	CC848817651
150' Alarm or distribution cable (J1 or J7)	CC848817668
15' Alarm input cable (J2)	CC848853614
Shelf to shelf communication cable (J3, J4)	CC848847780

AC Input, DC Output Cables	
C19 plug, with 5-15P plug, 8'	CC848850792
C19 plug, with L6-20P plug, 8'	CC848850842
C19 plug, unterminated, 8'	CC848847368
Molex Mini-Fit SR, unterminated, 8awg, 10' (2 cables provided)	848710711
DC output cable, 2ga, 10'	848748987
DC Bus Bar Strap (2 required)	CC848844324



Controller	
CP841A-3C3R	CC109145331

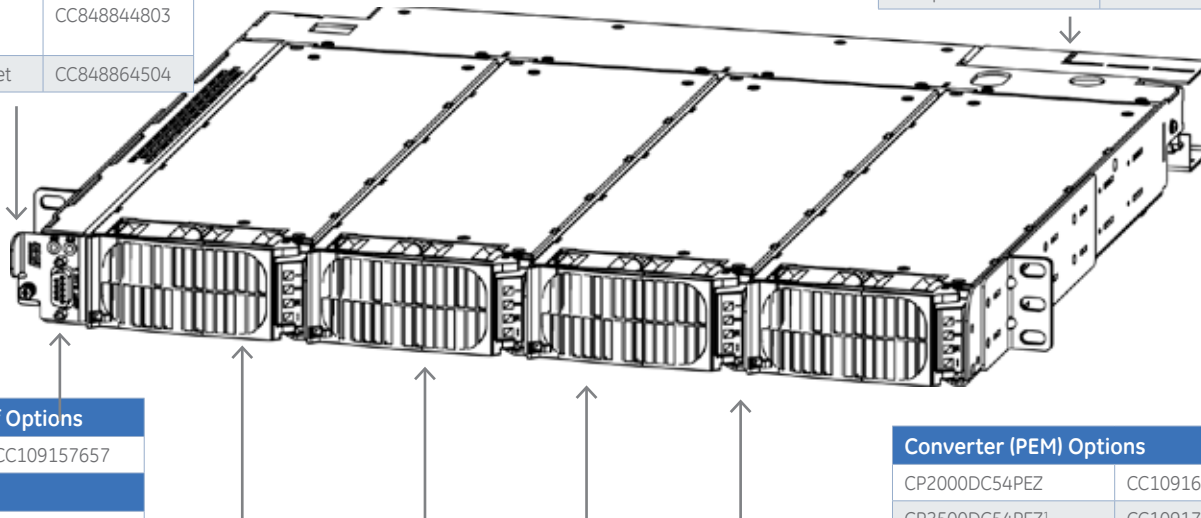
Rectifier	
CP2000AC54TEZ	CC109158440
CP2000AC54TEP	CC109167565
CP2725AC54TEP	CC109167532
CP2725AC54TEZ	CC109149423
Rectifier Slot Filler	
Central Office White	CC848822263

Rectifier Shelf Options	
List 3	CC109147542
List 4	CC109140043
List 6 (Shown)	CC109140027

J2007001 Converter Shelf Ordering Guide

Mounting Brackets	
1U bracket for 23" frame mount	CC848844803
Wall mount bracket	CC848864504

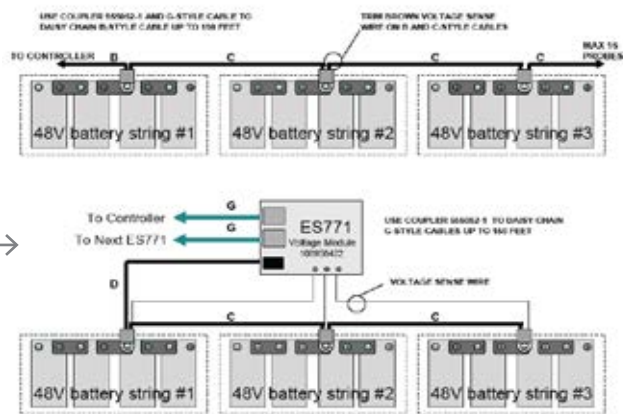
DC Output Cables	
DC output cable, 2 GA 10'	848748987
DC Bus for 1/4" Faston Connections (2 required)	CC848886192



Converter Shelf Options	
List 14	CC109157657
Controller	
CP841A_3C3R	CC109145331
Slot Filler	
Central Office White	CC848847871

Converter (PEM) Options	
CP2000DC54PEZ	CC109162104
CP2500DC54PEZ ¹	CC109170528
Rectifier Slot Filler	
Central Office White	CC848822263

Battery Management Accessories		
A: QS873A Thermal Probe		CC109142980
B: 10' probe to controller wireset		CC848817024
C: 1' probe to probe wireset		CC848822560
C: 5' probe to probe wireset		848719803
C: 10' probe to probe wireset		CC848822321
ES771A Voltage Monitor Card		108958422
D: 2 ½ ' ES771A to probe wireset		CC848791517
D: 6' ES771A to probe wireset		CC848797290
D: 10' ES771A to probe wireset		848719829
G: 4' ES771A to ES771A or controller wireset		CC848791500
G: 10' ES771A to ES771A or controller wireset		848652947



Specifications

Rectifiers

Power Module	Output Power/Input Voltage	Output Voltage	Protection	Physical
CP2000AC54TEZ/TEP	2000W / 200-277VAC 1200W / 100-120VAC	Hardware set 44 - 58Vdc Software set 42 - 58Vdc	15A breaker, 14 gauge wire	Length: 13.85"/351.8mm Width: 4.00"/101.6mm Height: 1.66"/42.2mm Weight: 4.6lb/2.1kg
CP2500DC54PEZ	2500W / 40-72VDC		70A breaker, 8 gauge wire	
CP2725AC54TEZ/TEP	2725W / 200-277VAC 1200W / 100-120VAC		20A breaker, 12 gauge wire	
CP2000DC54-PE	2000W / 40-72VDC		60A breaker, 8 gauge wire	

NOTES: PE suffix denotes PoE compliance. Z suffix denotes RoHS 6 compliance. TE suffix denotes Total Efficiency* architecture.

Shelves

Mechanical	J85480S-1	J2007001
Height	1.71inches/43.4mm	1.71 inches/43.4mm
Width (with mounting ears)	19 inches/483mm	19 inches/483mm
Depth	16.25 inches/413mm	17.06 inches/433mm
Weight (without rectifiers)	9.25lbs/4.2kg	8.75lbs/4.0kg
Environmental	J85480S-1	J2007001
Operating Temperature Range	List 14: -40°C to 75°C (-40 to 167 °F) Lists 20, 21: -40°C to 25°C (-40 to 77 °F) [Commercial 60°C C19 AC cord] -40°C to 55°C (-40 to 131 °F) [High Temp C19 AC cord] Lists 23: -40°C to 25°C (-40 to 77 °F) [Commercial 60°C C13 AC cord] -40°C to 55°C (-40 to 131 °F) [High Temp C13 AC cord]	Lists 6: -40°C to 25°C (-40 to 77 °F) [Commercial 60°C C19 AC cord] -40°C to 55°C (-40 to 131 °F) [High Temp C19 AC cord] Lists 3, 4: -40°C to 55°C (-40 to 131 °F)
Operating Relative Humidity	0 - 95% (non-condensing)	
Storage Temperature Range	-40°C to 85°C (-40 to 185 °F)	
EMC	FCC, EN 55022, CISPR22, Level A, conducted and radiated	
Immunity	EN55024 (CISPR24) Class A, conducted and radiated	
Safety/Standards Compliance	J85480S-1	J2007001
Safety Standards	CAN/CSA C22.2 No. 60950-1-03, UL 60950-1, 1st Edition VDE IEC 60950-1, 1st Edition	
Certification Marks	Lists 14, 20, 21, 23 VDE Lists 14 UL Recognized (Canada and U.S.) Lists 20, 21, 23 UL Listed (Canada and U.S.)	Lists 4, 6 VDE Lists 4 UL Recognized (Canada and U.S.) Lists 6 UL Listed (Canada and U.S.)

Note: All GE CP AC cords are High Temperature cords.

Notes

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Management Visibility

Galaxy Manager* software is the centralized visibility and control component of a comprehensive power management system designed to meet engineering, operations and maintenance needs. The Galaxy Manager client-server architecture enables remote access to system controllers across the power network.

- Dashboard display with one-click access to management information database
- Trend analysis
- Scheduled or on demand reports
- Fault, configuration, asset, and performance management

Training

GE offers on-site and classroom training options based on certification curriculum. Technical training can be tailored to individual customer needs. Training enables customers and partners to more effectively manage and support the power infrastructure. We have built our training program on practical learning objectives that are relevant to specific technologies or infrastructure design objectives.

Service & Support

GE field service and support personnel are trusted advisors to our customers – always available to answer questions and help with any project, large or small. Our certified professional services team consists of experts in every aspect of power conversion with the resources and experience to handle large turnkey projects along with custom approaches to complex challenges. Proven systems engineering and installation best practices are designed to safely deliver results that exceed our customers' expectations.

Warranty

GE is committed to providing quality products and solutions. We have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired or replaced as soon as possible.

For full warranty terms and conditions please go to www.gecriticalpower.com.



imagination at work

Compact Power Line, CPB-CPL, Rev. 03/14

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