GE Critical Power

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 fullfeature 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



Applications

- Enterprise networks
- OEM Telecom equipment

Key Features

- Compact 1RU form factor
- PMBus compliant dual I²C and RS485 serial bus communications

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.

- Power over Ethernet
- VoIP/soft switches
- SAN/NAS/iSCSI applications
- LAN/WAN/MAN applications
- 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

- Indoor wireless
- Routers and switches
- CE marked
- RoHS 6 compliant
- Hot pluggable

Specifications

| AC-DC Power Supplies | | | | | |
|--|---|-------------------------------|--|--|--|
| Input | 2000 | 2725 | | | |
| Voltage Range - Low-Line - High-Line | | ninal (1200W) 7Vac 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

 $^{\scriptscriptstyle 2}~$ for loads below 1200W

| AC-DC Power Supplies | | |
|---|--|--|
| Output | 2000 | 2725 |
| Voltage Default | 54 | Vdc |
| Voltage Adjust Range - Hardware set via margin pin - I²C or RS485 set | | 8Vdc 8Vdc |
| 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 | 9mV | rms5 |
| Ripple (5Hz to 20MHz) - RMS - Peak to Peak | | ms max p-p max |
| Over Voltage Protection - Delayed - Immediate | | Vdc Vdc |
| Over Temperature - Warning - Shutdown | | C DC |
| 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 | 54\ | /dc | | | | |
| Voltage Adjust Range | 44 - 5 | 8 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°C1 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 |

 $^{\rm 1}$ Designed to start at an ambient as low as -40°C but may not meet operational limits until above -5°C.

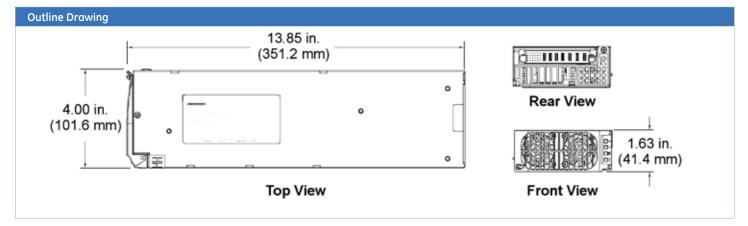
| General | |
|------------------|---|
| Cooling | Internal variable speed fan cooled |
| Efficiency | 90% @ 100 Vac (Vout>52V, Pout>50% 93% @ 230 Vac (Vout>52V, Pout) |
| Heat Dissipation | AC-DC 2725 -> 151W / 514 BTU 2500 -> 138W / 471 BTU 2000 -> 110W / 375 BTU |
| | DC-DC 2500 -> 220W / 751 BTU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

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-p-play
 - DHCP for plug-n-play
 FTP for rapid backup and up
 - 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

- Transmission equipment
- Fiber in the loop
- Routers/switches

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

• Data networks

• PBX

Standard Battery Management Features

- Float/boost mode control
 - Manual boostManual timed boost locally, T1.317,
 - 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

Integrated Monitoring Inputs/Outputs

- System plant voltage (accuracy ±0.5%, resolution 0.01V)
- One system shunt (accuracy ±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) Less than 7W Input Power 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) 1.75 in. H, 0.75 in. W, 8.00 in. D; 0.5lb 45mm H, 20mm W, 204mm D; 227g **Physical Specifications** 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.

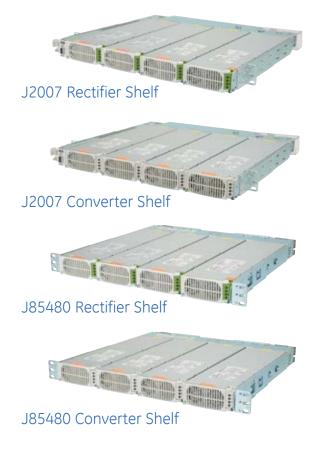
Features - Model J85480S1

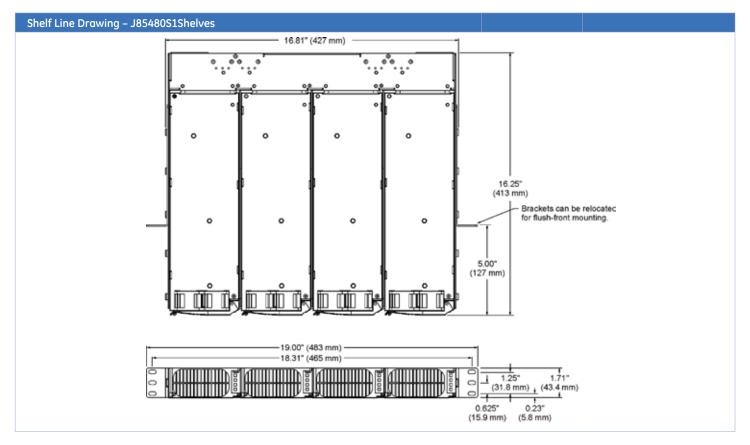
- Fits into a standard 19" rack
- Two DC Outputs may be common or split. Each output bus is rated for 100A with two-hole lug landings for 2 AWG wire.
- Choose between IEC-320 C13 or C19 or other AC input connections.
- Analog or dual/redundant I²C communications.
- Adjustable mounting ears for near flush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





J85480S1 Shelf Options

| List Max | | DC Input | D | C Output | Max Power | | Features | Order Code |
|----------|-------|-------------------------------|-------|-------------|-----------|-----------|------------------|-------------|
| Power | Power | ver Plug | Bus | Termination | Supply | Setpoint | Other | Order Code |
| 14 | 10kW | Qty 2 (1 per 2 rectifiers) | split | DH Lugs | CP2500DC | (+) 48Vdc | POE, Analog, I²C | CC109124764 |



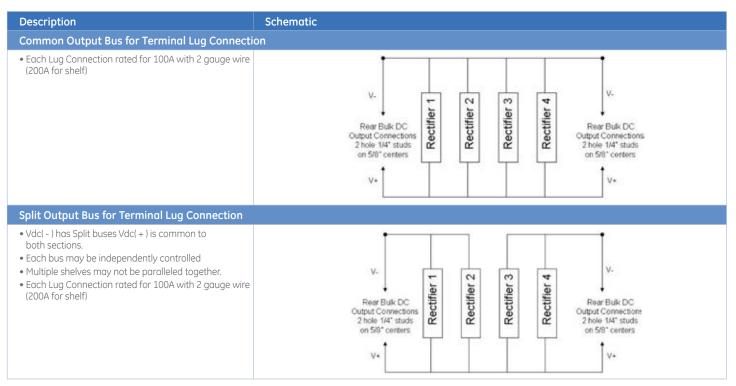
| List | List Max AC Inpu Power Plug | | C Output | Max Rectifier | Features | | Orden Cedea | |
|------|--------------------------------|------------------|----------|---------------|----------|-----------|------------------|-------------|
| LISL | | | Bus | Termination | Size | Setpoint | Other | Order Codes |
| 20 | - 11kW | 1kW IEC-320, C19 | Common | | 002725 | (+) 54Vdc | Angles 12C | CC109147344 |
| 21 | | | Split | DH Lugs | CP2725 | -54Vdc | Analog, I²C | CC109147328 |
| 23 | 8kW | IEC-320, C13 | Common | | CP2000 | (+) 54Vdc | POE, Analog, I²C | 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



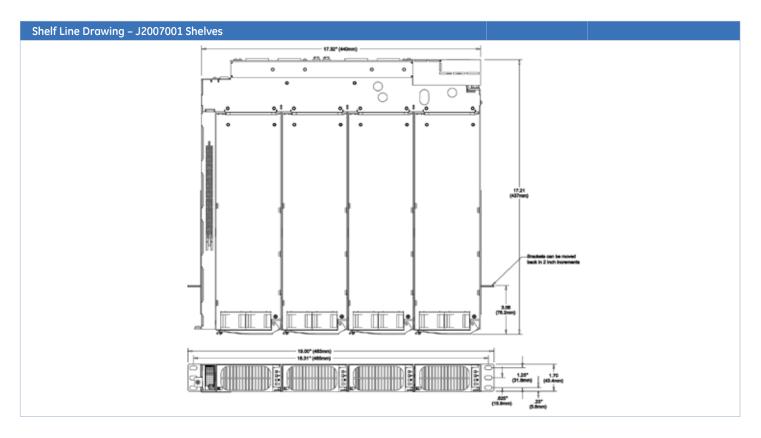
Communication Signals – J85480S1 Shelves



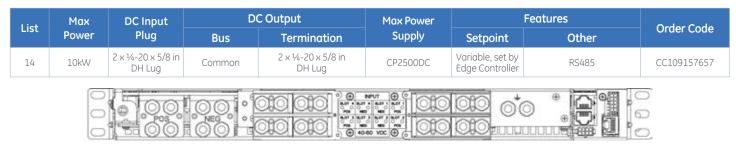
| J1 CONNECTOR – Pin Out | | | | |
|------------------------|-------------|-----|------------------|--|
| Pin | Signal | Pin | Signal | |
| 1 | POWER_CAP_1 | 16 | SDA_1 | |
| 2 | POWER_CAP_2 | 17 | Fault | |
| 3 | POWER_CAP_3 | 18 | Alert#_0 | |
| 4 | POWER_CAP_4 | 19 | Enable side B | |
| 5 | MOD_PRES_1 | 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 | lso. 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 | |



J2007001L14 DC PEM Shelf Options



J2007001 Shelf Options

| List | Max Rectifer 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 | DC Output Bus AC Signal |
| 4 | 2725 Watts | Individual feed (Molex Mini-Fit SR) | nole lugs (¼-20 studs on 5/8" centers). | |
| 6 | 2725 Watts | Individual feed (IEC-320 C19 Cords) | | |

Notes:

1. CP841A Pulsar Edge Controller ships separately.

2. Up to 3 shelves may be interconnected.

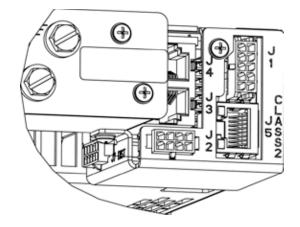
J2007001 Shelves System Controller Overview

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

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.

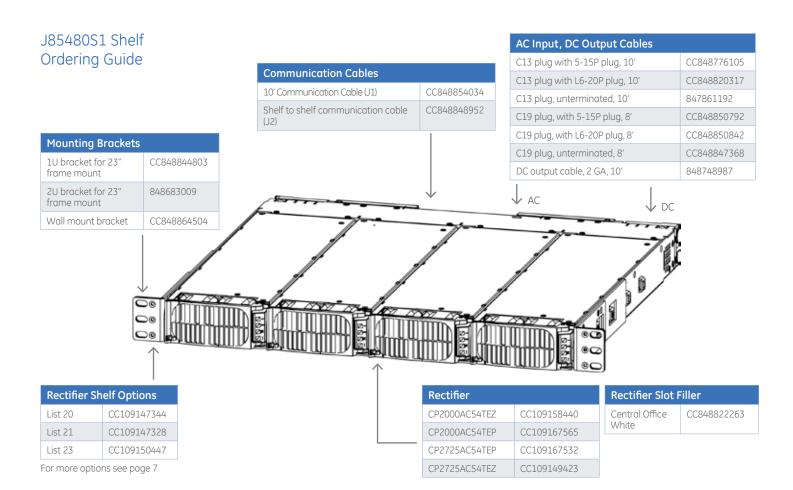
| J1 CONNECTOR – Pin Out | | | | |
|------------------------|--------------------------|--------------------------|--|--|
| Pin | Signals for SPS841A_3C3R | Signals for SPS841A_0I5R | | |
| 1 | ALM1 Input | Alarm Relay 3 Rtn | | |
| 2 | ALM2 Input | Alarm Relay 2 Rtn | | |
| 3 | Alarm Relay 1 Rtn | Alarm 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 | | |

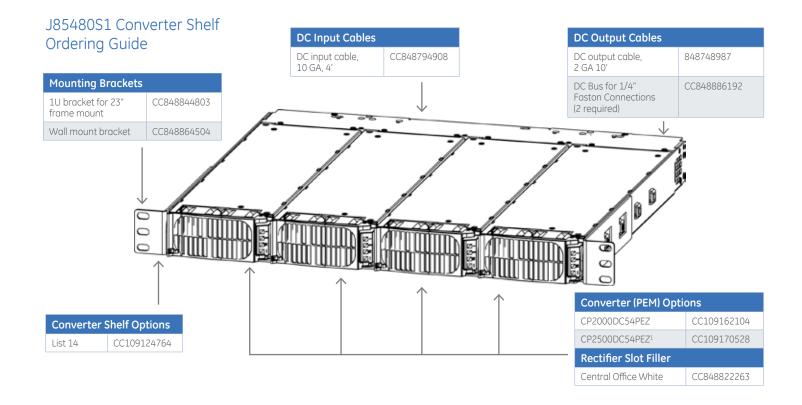


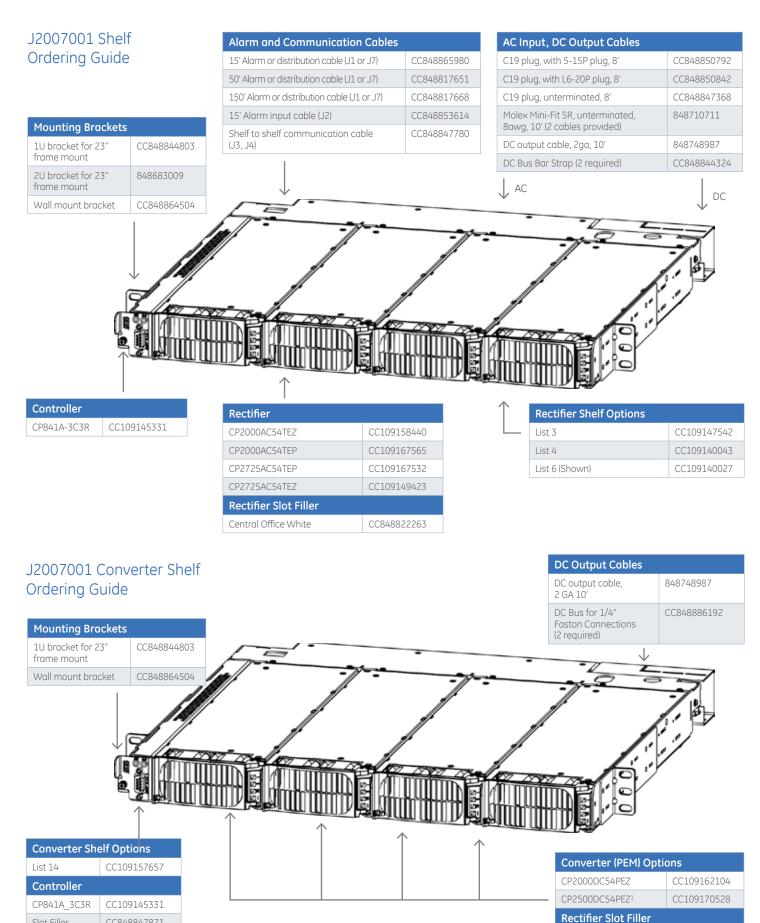
| J2 CONNECTOR | | J7 CONNECTOR | |
|--------------|------------|--------------|----------------|
| Pin | Signal | Pin | Signal |
| 1 | ALM6 Input | 1 | FAJ |
| 2 | - | 2 | Coil Rtn |
| 3 | ALM3 Input | 3 | LVD_NC |
| 4 | ALM4 Input | 4 | LVD_NO |
| 5 | ALM5 Input | 5 | Shunt- |
| 6 | -48V | 6 | OS |
| 7 | -48V | 7 | Coil1 |
| 8 | -48V | 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.



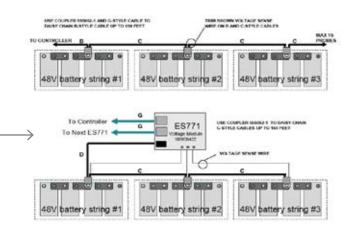




CC848822263

Central Office White

| 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 | | 15A breaker, 14 gauge wire | Length: 13.85"/351.8mm |
| CP2500DC54PEZ | 2500W / 40-72VDC | Hardware set 44 - 58Vdc Software set 42 - 58Vdc | 70A breaker, 8 gauge wire | Width: 4.00"/101.6mm |
| CP2725AC54TEZ/TEP | 2725W / 200-277VAC 1200W / 100-120VAC | | 20A breaker, 12 gauge wire | Height: 1.66"/42.2mm Weight: 4.6lb/2.1kg |
| 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] | <i>Lists 6</i> : -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] <i>Lists 3, 4</i> : -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 radiat | ted |
| 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 Editio VDE IEC 60950-1, 1st Edition | n |
| Certification Marks | <i>Lists</i> 14, 20, 21, 23 VDE <i>Lists</i> 14 UL Recognized (Canada and U.S.) <i>Lists 20, 21, 23</i> 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

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 <u>www.gecriticalpower.com</u>.



Compact Power Line, CPB-CPL, Rev. 03/14 *Trademark of General Electric Company. Copyright 2014 General Electric Company. All Rights Reserved.

GE reserves the right to make changes to specifications of products described at any time without notice and without obligation to notify any person of such changes.

GE Critical Power

601 Shiloh Road, Plano, TX 75074 +1877 546 3243 (toll-free in North America) +1 972 244 9288 (direct number) info.criticalpower@ge.com GECriticalPower.com

24/7 Technical Support pe.techsupport@ge.com