GE Energy

PRODUCT OVERVIEW

# Slimline Power System

## 24V DC Outside Plant and Customer Premise Solution

- Customer premise power for converged networks
- Large plant features in a small plant package
- 1000 Watts / 40 Amps single shelf capacity in 1RU
- 10.3 inches (264mm) depth is ideal where space is restricted
- Greater than 90% efficiency

### Overview

The Slimline Power System provides advanced controller features in a compact, cost-efficient footprint. The SPS shelf is 1.75" high, 10.3" deep and mounts in 19-inch or 23-inch wide frames, with two power slots for rectifiers and distribution. The Pulsar Edge controller has Ethernet connectivity to facilitate remote network management to monitor and control rectifiers, batteries, and distribution. SPS is a reliable DC power solution where system height and depth are restricted.

### Shelf Options

The Slimline Power System product line provides several shelf options equipped with Ethernet, alarm inputs/outputs, and 1-Wire™ connection for battery voltage and temperature monitoring. Shelves can be deployed in parallel to increase output capacity. The shelf configurations hold up to two 500 Watt rectifier modules and include an integrated distribution module with GMT fuse positions, and low-voltage battery disconnect circuit.

### SPS Rectifier

This hardened rectifier is a single phase, hot pluggable, fan cooled rectifier that provides up to 500 Watts of high availability 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

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

## Benefits

### Reliability

- Simplified deployment
- Proven field performance
- Hardened for extreme environments

### Intelligence

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

### Investment Protection

- Engineered to reduce installation time
- Efficient operation

### On Time Delivery

- Standard building blocks
- 4 - 6 week availability
- 24/7 technical support

### Total Efficiency

The GE Energy Total Efficiency™ (TE) architecture reduces energy loss and lowers cooling costs by 50-70%. TE products will prioritize sustainable energy sources like solar, wind, water and fuel cells over traditional utility grid or diesel generator sources – and they will intelligently respond to smart grid information to reduce consumption during peak demand periods. Active Rectifier Management (ARM) and Battery Charging Optimization (BCO) features increase efficiency on current and legacy power infrastructures. The Total Efficiency architecture addresses issues end-to-end based on our proven experience and expertise in batteries, power distribution, DC energy systems, AC-DC power supplies, and DC-DC board mounted power to deliver a solution that is more safe, reliable and energy efficient than competitive alternatives.

imagination at work

# Ordering Information – Slimline Power System

## 24V DC Outside Plant and Customer Premise Solution

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### Features

- SPS rectifiers produce 21Vdc to 29Vdc output; up to 500W high line
- Universal AC input: 90-290VAC
- AC input: IEC-320 C13 style cord per shelf
- DC output bus is rated for 40A with screw terminal landing for 12 AWG wire
- Temperature hardened harsh environments. (-40°C to +75°C)
- Compact size: 1U (1.75") high, 10.3" deep
- Adjustable mounting ears for either flush front or 5- inch set back position
- Plug-N-Play SPS841A controller with Web based interface available with display. Display has USB craft port and remote LAN access.
- Distribution includes a battery connection, 6 GMT load fuses and Low Voltage Battery Disconnect (LVBD)

### List 102B Power Shelf with Distribution



 

# Stackable Solutions

- Order configured systems from the factory or assemble shelves in the field
- Bullet-style battery and load breakers, up to 100A with 1/4-20 x 5/8 lug landings
- GMT fuses with terminal block output for 12 gauge wire, 15A max fuse size
- 12 AWG AC screw terminal block
- 1-Wire port for battery voltage and temperature monitoring, LAN port, screw terminal alarm connections
- Distribution rated for 200A (150A with LVD)

**Configured Systems**

| Ordering Code | Description | Load Breaker Positions | Load GMT Fuse Positions | Battery Breaker Positions | LVD |
|---|---|---|---|---|---|
| 150032348 | SPS-2U-AC5-PS3-PS3-DC12B | 2 | 12 | 2 | No |
| 150030465 | SPS-2U-AC5-PS3-DC12B-LVBD | 2 | 12 | 2 | LVBD |
| 150032349 | SPS-2U-AC5-PS3-DC24B | 0 | 24 | 2 | No |
| 150032350 | SPS-2U-AC5-PS3-DC24B-LVBD | 0 | 24 | 2 | LVBD |

**1RU Rectifier Shelves**

| Ordering Code | Description | AC Input | Rectifier Slots | Controller Support | DC Output |
|---|---|---|---|---|---|
| 150028853 | J2007003L051C | Rear AC Terminal | 3 | Yes | Rear Bulk |
| 150028854 | J2007003L052C | Rear AC Terminal | 3 | No | Rear Bulk |

**1RU Distribution Shelves**

| Ordering Code | Description | Load Breaker Positions | Load GMT Fuse Positions | Battery Breaker Positions | LVD |
|---|---|---|---|---|---|
| 150032396 | J2013001L101 | 2 | 0 | 2 | No |
| 150032397 | J2013001L101B | 2 | 0 | 2 | LVBD |
| 150032343 | J2013001L102 | 2 | 12 | 2 | No |
| 150032344 | J2013001L102B | 2 | 12 | 2 | LVBD |
| 150032345 | J2013001L103 | 0 | 24 | 2 | No |
| 150032346 | J2013001L103B | 0 | 24 | 2 | LVBD |
| 150032398 | J2013001L104 | 2 | 24 | 0 | No |
| 150032399 | J2013001L105 | 4 | 12 | 0 | No |
| 150032400 | J2013001L106 | 4 | 0 | 0 | No |
| 150032401 | J2013001L107 | 0 | 36 | 0 | No |