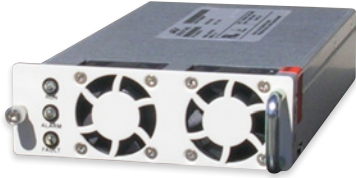


EP1000 Rectifiers (SPS Rectifiers)



The SPS rectifiers are single phase, hot-pluggable, fan cooled rectifiers that provide highly reliable DC power. The SPS EP1000 rectifiers are cost-effective rectifiers that occupy just 1RU and it's shallow depth is an ideal power solution for space critical applications. The constant output power characteristics as well as the extended temperature range, universal AC input voltage range and compact size are key attributes that make this rectifier the right choice for your power needs.

These rectifiers are applicable for indoor and outdoor environments especially where equipment depth and height are restricted. The SPS rectifiers communicate digitally to the Pulsar Edge controller family over a RS485 bus to add extensive monitoring and alarm management facilities. Its flexible and sophisticated feature set makes this front-end supply an excellent choice for power in a variety of application spaces.

Applications

- Telecommunications networks
- Digital subscriber line (DSL)
- Indoor/outdoor wireless
- Routers/switches
- Fiber in the loop
- Transmission
- Data networks
- PBX

Key Features

- Extended temperature range
- Redundant fan cooling
- Front panel LED indicators
- 1U height, minimized depth
- Universal AC input
- Analog load sharing
- Hot pluggable
- RoHS compliant

| Input | |
|---------------------------------|-----------------------|
| Voltage Range | |
| - Low-Line | 90 – 175 Vac (500W) |
| - High-Line | 176 – 290 Vac (1000W) |
| Input Frequency | 45-65 Hz |
| Input Current | 6 Amps |
| Inrush Transient | 16 Apk |
| Total Harmonic Distortion (THD) | < 5 % |
| Power Factor | ~1.0 |
| Holdup Time | >10 ms full power |

| Output | |
|------------------------|------------------------------|
| Voltage Nominal | 52 Vdc |
| Voltage Adjust Range | 42-58 Vdc (software control) |
| Rated Output Current | |
| - Low-Line | 10 Adc max |
| - High-Line | 20 Adc max |
| Rated Output Power | |
| - Low-Line | 500 Watts |
| - High-Line | 1000 Watts |
| Psophometric Noise | <2 mV max |
| Ripple | <200 mVpkpk |
| Overvoltage Protection | 59.5 Vdc |

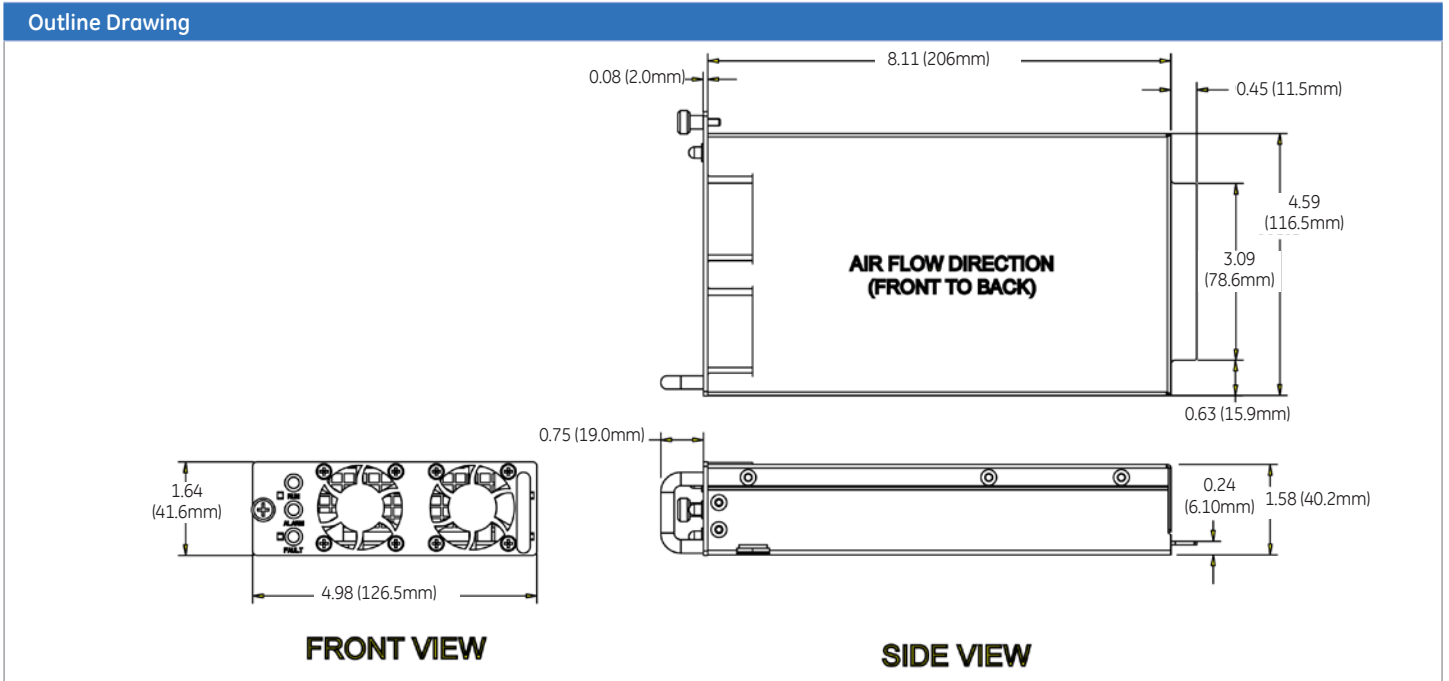
| Control and Monitoring | |
|--------------------------|---------------------------------|
| Visual Status Indicators | Run, Alarm and Fault LEDs |
| Serial Interface | Half duplex RS485 (GP Protocol) |

| Environmental | |
|-----------------------|-------------------------------|
| Operating Temperature | -40°C to +75°C |
| Storage Temperature | -40°C to +85 °C |
| Power Derating | > +65°C 2% per degree Celsius |
| Relative Humidity | 95% max, non-condensing |
| Altitude | 4000m max |
| Audible Noise | < 55dBA |

| Mechanical | |
|-----------------|--------------|
| Length (in./mm) | 8.11 / 206.0 |
| Width (in./mm) | 4.98 / 126.5 |
| Height (in./mm) | 1.64 / 41.6 |
| Weight (lb/kg) | 3.08 / 1.4 |

| General | |
|------------------|----------------------|
| Cooling | Redundant Fan Cooled |
| Efficiency | >90% |
| Heat Dissipation | 97 W / 331 BTU |

| Safety and Standards Compliance | |
|---------------------------------|---|
| NEBs | Evaluated by independent NRTL test lab to Telcordia GR63 and GR1089-CORE, Issue 4 |
| Safety | CE mark to Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/E UL 609501-1 Recognized CSA C22.2 No. 60950-1-03 Certified VDE0805:200112 (EN 609501) Licensed |
| RoHS | Compliant to RoHS EU Directive 2002/95/EC |
| EMC | FCC and EN 55022, Class B; FCC, Class B |
| ESD | EN61000-4-2, Level 4 |



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 Energy 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 Energy 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 Energy 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.ge.com/powerelectronics.



Contact Us

For more information, call us toll free at **+1 877 546 3243**, or +1 972 244 9288 and visit us on the web at www.ge.com/powerelectronics