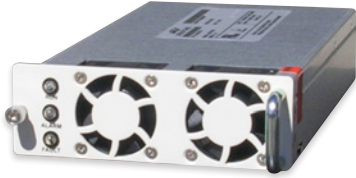


EP1000 Rectifiers (SPS Rectifiers)



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

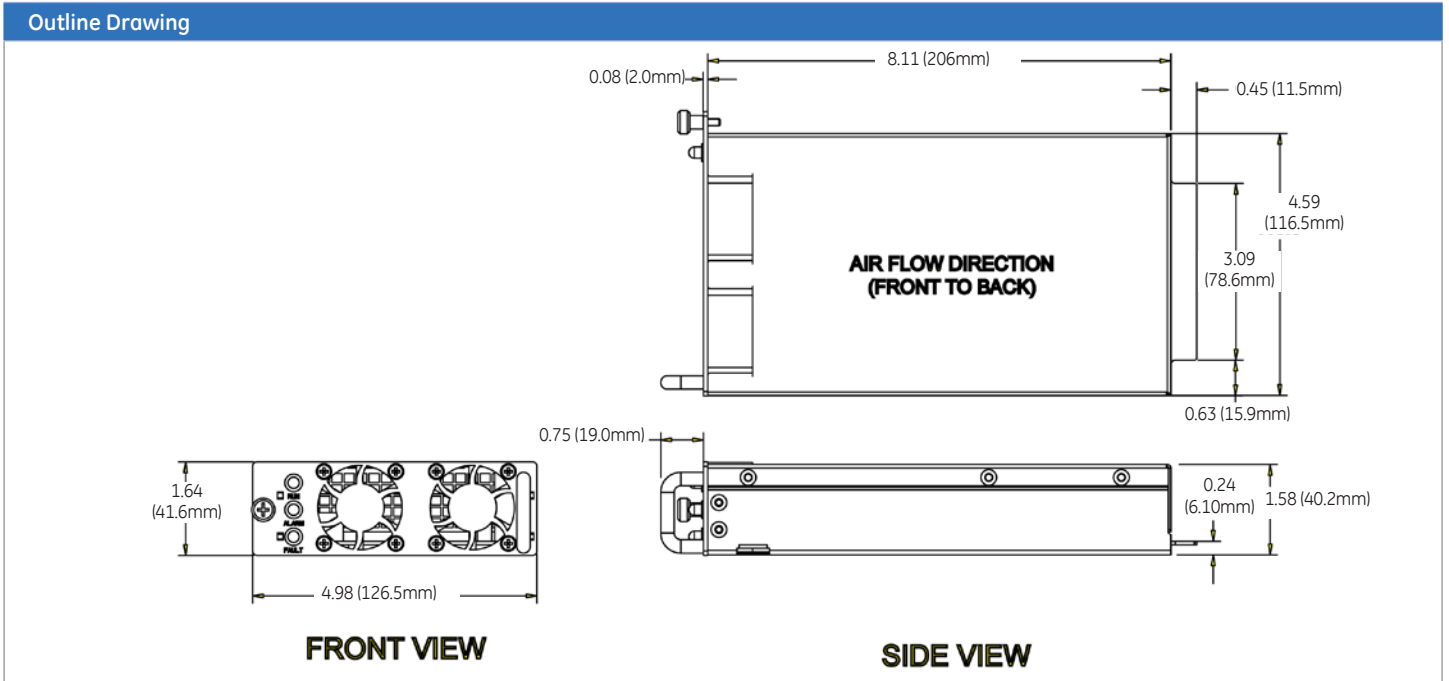
Control and Monitoring	
Visual Status Indicators	Run, Alarm and Fault LEDs
Serial Interface	Half duplex RS485 (GP Protocol)

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.



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