

# RECTIFIER MODULE

## SmartPower II Series

### SP II SL-2000HE



#### Introduction

SP II SL-2000HE is a digital rectifier with outstanding reliability, efficiency and power density. It is specially designed for telecom, network access and data center applications.

#### Input

Voltage	85 ~ 300VAC(Nominal 220VAC)
Frequency	45Hz ~ 66Hz
Input Current	<11Arms at 220Vac input <14Arms at 176Vac input
Power Factor	>0.99
THDi	<5%

#### Features

- **High efficiency and high power density**  
96.2% efficiency and 22.40W/in<sup>3</sup> power density.
- **Digital control**  
Digital primary and secondary control, realize excellent monitoring and regulation.
- **High reliability design**  
One fan front-to-back air flow with latest thermal solution and experienced design.
- **Disconnect mains when hazardous input** SP II SL-2000HE will disconnect mains to protect itself when it can not sustain the input voltage.
- **Excellent EMC performance**  
Lower interference and excellent susceptibility give module better compatibility.
- **Global approvals**  
Meet CE, UL and TUV standard.

#### Output

Voltage	42 ~ 58V DC (Nominal 53.5V DC)
Power	2000W
Maximum Current	41.7A at 48V DC
Static Voltage Regulation	± 0.6%
Dynamic Voltage Regulation	<5% for 10%~90% load, regulation time < 50ms
Ripple	<200mV peak to peak
Psophometric	<2mv
Current Sharing	<5%
Hold up time	>10ms
Startup time	3~8S
Efficiency	96.2%

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### Other Specifications

Operating temp	-40°C ~ +75°C
Storage temp	-40°C ~ +85°C
Relative humidity	<95% ( non-condensing )
Altitude	4000m
IP level	IP 20
Input protection	6KA lightning protection
Output protection	59Vdc Overvoltage shutdown Short circuit proof Output fuse
Isolation	3.0KVAC-input and output 1.5KVAC-input and earth 0.5KVAC-output and earth
Cooling	One fan (front to back airflow)
Fan speed	Temperature and output current regulated
MTBF	>300,000 hours (T_ambient:25°C) Telcordia SR-332 Issue 1
Acoustic noise	≤55dB at 220VAC input and full load (T_ambient<30°C)
Dimensions	108W x 41.4 H x 327.2D (mm)
Weight	2.2Kg

### Applicable Standards

Safety	IEC60950-1 UL60950-1 EN60950-1
EMC	EN55022 ClassB(emission) IEC61000-3-2 IEC61000-3-3 IEC61000-4-2(electrostatic discharge) IEC61000-4-3(radiated immunity) IEC61000-4-4(EFT) IEC61000-4-5(surge immunity) IEC61000-4-6(conducted immunity) IEC61000-4-8 IEC61000-4-11
Environment	ETSI EN 300 019-2(-1,-2,-3) ETSI EN 300 132-2 Telcordia NEBS GR63 CORE Zone 4 RoHS compliant

### Diagrams

