Smart Power II 48/3000 HE

-Smart Power II Series



Features

- High efficiency and highest power density 96% efficiency and 33.43W/in3 power density.

Rectifier modules

Digitalized Primary and secondary controls could realize excellent monitoring and regulation.

High reliability design

One fan front-to-back air flow with latest thermal solution and experienced electric synthetize ensure suitable working environment and high reliability

Disconnect mains when hazardous input

Smart Power II 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 reliability

Smart Power I is CE marked, UL recognized and TUV certified for worldwide application.

Introduction

Smart Power II 48/3000 HE is a digitalized rectifier with outstanding reliability, efficiency and power density. It is specially designed for telecom, network access, center data room applications with outstanding reliability and performance as DC power.

Applications

- Wireless communication
- Broadband and network access
- Satellite communication ground station
- 3G base station
- Telecom roadside cabinets









Centralized monitoring and management system Power Distribution Services

Electronic Air Cleaner



Technical Specifications

Input	
AC Supply	85-300Vac (Nominal 176-300VAC)
Over-voltage alarm	305±5Vac hysteresis voltage>10V
Under-voltage alarm	80 ± 5 Vac, hysteresis voltage >15V
Frequency	45~65Hz
Input current	≤18Arms at nominal input
V.	≤21Arms at 176Vac input
Power Factor	>0.99 at 40% load or more
Startup time	3S-8S
Input protection	Varistors for transient protection
Output	
Output Voltage	53.5VDC (±0.15V)
	(4258VDC adjustable)
Output Power	3000W at nominal input
Output Current	56.6A±0.5A@normal input
Voltage Regulation	±0.6%
Efficiency	Typical 95%, max 96%
Current sharing	≤±5% unbalance of average current of all paralleled modules
Holdup time	>10ms
	Constant power 3000W when output voltage from 53.5V to 42V.
Output protection	59±1Vdc Overvoltage shutdown
	Short circuit proof
	High temperature protection
	Fuse

Other specifications	
3.0KVAC-input and output	
1.5KVAC-input and earth	
0.5KVAC-output and earth	
Mains over or under voltage	
Mains over voltage disconnection	
High or low ambient temperature	
Short on output from outside	
Fan failure	
PFC failure	
Over voltage shutdown on output internal	
Over temperature on hot point	
Communication failure between primary	
and secondary	
IP20	
One fan (front to back airflow)	
> 300, 000 hours (T ambient : 25°C)	
Temperature and output current regulated	
<55dBA at nominal input and	
Full load(Tambient < 30°C)	
-40 to +75°C (-40 to +167°F)	
-40 to +55°C(-40 to +131°F) full load	
-40 to +85°C (-40 to +185°F)	
Operating: ≤95% non-condensing;	
Storage: ≤99% non-condensing	
108W x 327.2D x 41.4 H (mm)	
2.2kg	

Applicable Standar	ds
Electrical Safety	IEC60950 UL60950
EMC	EN55022 ClassB(emission)
	IEC61000-4-6(conducted immunity)
	IEC61000-4-3(radiated immunity)
	IEC61000-4-2(electrostatic discharge)
	IEC61000-4-4(fast transients)
	IEC61000-4-5(surge immunity)
	IEC61000-4-11
	IEC61000-3-3
Harmonics	EN 61000-3-2
	ETSI EN 300 019-2(-1,-2,-3)
	ETSI EN 300 132-2
	Telcordia NEBS GR63 CORE Zone 4
	RoHS complant