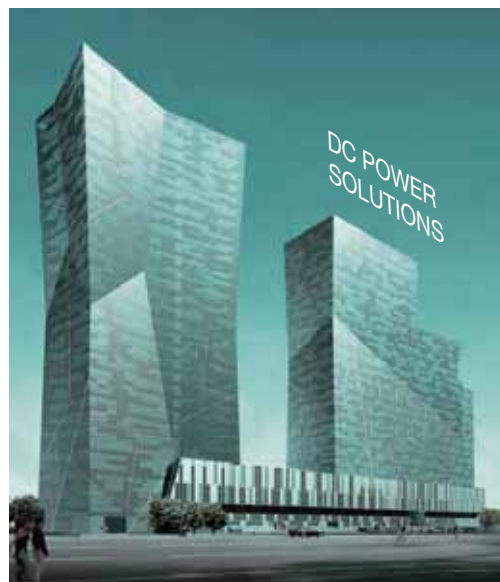


DYNAMIC POWER

FOR TELECOMMUNICATION
NETWORK
DATA CENTER

YOUR RELIABLE DC POWER SUPPLIER



Beijing Dynamic Power Co., Ltd.



FEATURES

High efficiency and highest power density

Typical 95% ,max 96% efficiency and 22.29W/in³ power density.

Digitalized control

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 synthesize ensure suitable working environment and high reliability

Disconnect mains when hazardous input

Smart Power I 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.

Global approvals

Smart Power II is CE marked.

SMART POWER II 48/2000HE



INTRODUCTION

Smart Power II 48/2000HE is a digitalized rectifier module with outstanding reliability and world leading power density. Over 96% power efficiency and automatic sleep function could save much energy consumption. Smart Power I and II series rectifier module and the power system is a big family of -48V DC power system which could cover global demand for telecom applications with wide operating temperature and wide input voltage range.



APPLICATIONS

Wireless communication
Broadband and network access
Satellite communication ground station
3G /4G base station
Telecom roadside cabinets

■ Switch Mode Power System
■ Remote Monitoring System
■ Renewable Energy Solution

■ Distribution Cabinet
■ DC/DC Converter
■ Hybrid Power System

■ Inverter
■ UPS/EPS
■ HVDC UPS

Beijing Dynamic Power Co.,Ltd.

www.dpc.com.cn

NO.8 Xinghuo Road, Science City, Fengtai District, Beijing, P. R. China



SPECIFICATIONS

Input

AC supply	Nominal: 220/230Vac 1ph Tolerances: 85-300Vac 1ph
Frequency	45~65Hz
Input current	≤11A rms at nominal input ≤13A rms at 187Vac input
Power Factor	>0.99
Input protection	Varistors for transient protection
THD	<5% at 100% load; <10% at 50% load

DC Output

Output voltage	Nominal output: 53.5VDC Standby test range: 43.2~58VDC
Output power	2000W at nominal input
Output current	37.4A±0.5A at nominal input
Efficiency	Typical:95%, max 96%
Current sharing	≤±5% unbalance of average current of all paralleled modules
Static Voltage Regulation	±0.6% from 5% to 50% load or from 50% to 100% load
Dynamic voltage regulation	±5% for 10-90% or 90-10%load variation, regulation time <50ms
Holdup time	>10ms, output voltage>43.2VDC at full load
Ripple and Noise	<200mv p-p, 20MHz bandwidth <2.0mv rms psophometric
Output protection	Overvoltage shutdown Short circuit and overload proof High temperature protection Output fuse

Other Specifications

Alarm	Mains over or under voltage Mains over voltage disconnection High or low ambient temperature Short on output from outside
Cooling	One fan (front to back airflow)
Fan speed	Temperature and output current regulated
MTBF	>300,000 hours (T ambient:25℃)
Acoustic noise	<55dBA at nominal input and full load (T ambient<30℃)
Operating temp	-40 to +75℃ (-40 to +167°F) -40 to +50°C (full load)
Storage temp	-40 to +85℃ (-40 to +185°F)
Humidity	Operating:≤95% non-condensing Storage:≤99% non-condensing
Dimensions	108W×327.8D×41.4H (mm)
Weight	2.5 kg

Applicable Standards

Electrical Safety IEC60950 UL60950

EMC	EN55022 Class B(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
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Harmonics	EN 61000-3-2
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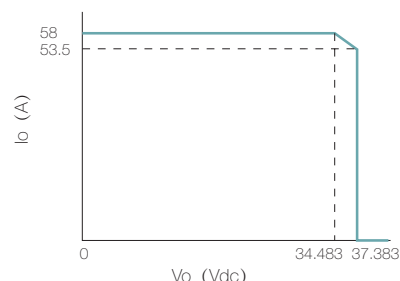
Environment	ETSI EN 300 019-2(-1,-2,-3) ETSI EN 300 132-2 Telcordia NEBS GR63 CORE Zone 4 RoHS compliant
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Certificate

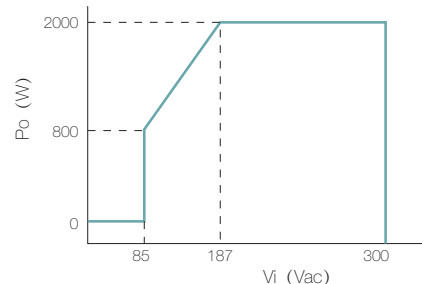
Europe CE

DIAGRAMS

Output Voltage vs. Output Current



Output Power vs. Input Voltage



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