

Telecom Power Supply

OPG1200 rectifier module

OPG1200

48V/1200W Rectifier Module



The innovative design of this module makes of it a highly efficient, reliable and cost-effective solution for our customers. Due to the compact design and the small size 48V/1200W rectifier module is suitable for any operation environment with low cost.

APPLICATIONS

• MICRO/PICO BTS

The 48V/1200W rectifier module is specially designed for Micro/PICO wireless coverage, it's highly reliable and cost-effective for giant number sites.

• NETWORK ACCESS

For small power network access, the rectifier module adapts to indoor/outdoor harsh environment, high reliability, low maintenance cost.

• SELF PROTECTION AND RELIABILITY

DSP control with advanced software ensures the overall functions to meet almost all requirements from customers.

The module has a high reliability protection functions: basic functions as output/input protection, over / low input voltage, over/low output voltage protection, over temperature protection as well as high level protection functions as low voltage derating, High temperature derating, fan temperature-control and speed regulation etc.

• HOT-PLUG AND EASY MAINTENANCE

The monitor will automatically recognized the new plugged module and establish communication, communication between modules via RS485 for load sharing even when the monitor is in default phase.

Fixed by captive screws, small size, light, easy to maintain

AC INPUT

voltage	85~300VAC (nominal100~240VAC)
frequency	45~65Hz
power factor	≥0.99@220VAC/20A, ≥0.98@220VAC/10A
input protection	L-line fuse10A Varistors for transient protection

DC OUTPUT

voltage	+53.5VDC
output power	1200W(154~300VAC), 500W(85~154VAC)
maximum current	22A
current sharing	5%
dynamic voltage regulation	±5.0% for 10-90% or 90-10% load variation, regulation time <200us
load regulation	±0.5% from 10% to100%load
ripple and noise	< 200 mV peak to peak, 30 MHz bandwidth, < 2 mV rms psophometric
output protection	Overvoltage shutdown Hot swappable - Inrush current limiting Fuse Short circuit proof High temperature protection

DESIGN STANDARDS

safety	IEC60950-1
EMC	EN 61 000-6-1 (immunity, light industry) EN 61 000-6-2 (immunity, industry) EN 61 000-6-3 (emission, light industry) EN 61 000-6-4 (emission, industry)
environment	ETSI EN 300 019-2 RoHS compliant

OTHER SPECIFICATIONS

efficiency	≥93%@220VAC@peak
isolation	3.0 KVAC – input and output 1.5 KVAC – input earth 0.5 KVDC – output earth
indicator LEDs	green--normal yellow--protection warning red--failure
alarms	Low main shutdown High temperature shutdown Rectifier Failure Output overvoltage shutdown Fan failure
warnings	Rectifier in power de-rate mode Remote battery current limit activated Input voltage out of range Low voltage alarm LVD activated
operating temp	-40~+55°C 100% power output +55~+65°C, 50% power de-rated output
storage temp	-40~+70°C
cooling fan	air flow front to back
MTBF	500000 hours
acoustic noise	50dB
humidity	10~95% no condensing
dimensions	86×191×42(W*H*D)
weight	1.0kg

Output Current-Efficiency Curve

—◆— Vin=220VAC/50Hz

