

Main features

- Efficiency 91.5 %
- 2000W nominal output
- 1570W output for temperature up to 70°C
- Compact and light weight
- Hot swappable, no system shutdown for maintenance
- Wide input voltage range: 90 - 310 V
- Power factor correction
- Constant output power characteristic
- Operating temperature range up to 75°C



Applications

Description

The rectifier CPR2000 is a single phase, hot-pluggable, fan-cooled rectifier. The outstanding power density of this product offers the optimum 1U shelf solutions for easy integration into power systems. The constant output power characteristic supplies the specified power over the full output voltage range. The benefit is an optimised modular system design (fewer number of modules). These performances as well as the extended temperature range and wide input voltage range are the key factors of the success of this rectifier and it offers a cost effective and reliable solution.

The typical applications for this rectifier are both in indoor and outdoor environments, which is a perfect solution for wireless base stations, core network, telecommunication & data networks and central offices.

CiTO Power Rectifier Series Product Specification

Loadreg., max.	170W
Efficiency	91.50%
Safety	EN 60 950 UL 60 950 CAN / CSA - C22.2 TUV/CE
EMI, radiated	FCC Part 15, class B
Compliant with	EN 55022, class B
Cooling	Fan cooled rectifier
Power density	24 W / inch ³
Acoustic noise	50 dB(A) at 25 Degree C

Voltage range	90 ... 310 V _{RMS}
Volt. range, red. power	90 ... 176 V _{RMS}
Inrush current	< 16 A
Harmonic distort.	< 5 %
Power factor	> 0.99
EMI, conducted	FCC Part 15, class B
Mains connector	Rear side
Input protection	Internal fuse 16A x 1
Input switch	None

Voltage, nominal	54 V _{DC}
Voltage adjust	40 ... 59.5 V _{DC}
Voltage regulation	< ± 0.6 %
Overvoltage	59.5 V _{DC}
Ripple + spikes	≤ 100 mV _{n-p}
Psophometric	≤ 2.0 mV _{RMS} (weighted)
Current limit,	37 A @ 54.0V _{DC}
Power limit	2000W (54V/37A) or 48V/41.7A
Load sharing	< ± 5 %
Output connector	Rear side
Output characteristic:	



Status indication	LED «RFA/FF», Red LED «AC ON», Green LED «CL», Yellow
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Applicable controller	CSU5 (System type) CSU501 (Case type) CSU502 (Case type)
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Width, overall	125.5 mm (4.94 in)
Height, overall	41.0 mm (1.61 in, 1U)
Depth, overall	269.9 mm (10.63 in)
Weight	1.63 kg (3.6lb)

Operating	-20...+65 °C (-40...+149 °F)
Reduced power	+55...+75 °C (131...+167 °F)
Storage	-40...+80 °C (-40...+176 °F)
Relative humidity	95 % max, non condensing
MTBF (Calculated)	300K hours (Telcordia SR-332)

* Product specifications are subject to change without further notice