

Main features

- 300W output
- Efficiency 89 %
- Compact and light weight
- Hot swappable, no system shutdown for maintenance
- Wide input voltage range: 90 - 310 V
- Power factor correction
- Operating temperature range up to 75°C

Applications

- Indoor and outdoor
- Medium to large power systems
- Telecom, wireless, datacom



Description

The rectifier CPR-300 is a single phase, hot-pluggable, fan-cooled rectifier. The rectifier supplies the specified power over the full output voltage range. The benefit is an optimized modular system design (fewer number of modules) and matches the supply requirements for state-of-the-art telecom equipment. This performance as well as the extended temperature range, wide input voltage range, high power density and advanced technology 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 components, telecommunications networks and data networks.

CiTO Power Rectifier Series Product Specification

General	
Efficiency	89.00%
Losses, max.	35W
EMI, radiated	FCC Part 15, class B
Compliant with	EN 55022, class B
Cooling	Fan cooled with speed control
Power density	7.4 W / Inch ³
Acoustic noise	50 dB(A) at 25 °C

Input	
Operation voltage	90 ... 310 V _{RMS}
AC high voltage	Up to 380V for 10 minutes
Inrush current	<4A peak
Harmonic distort.	< 5 %
Power factor	> 0.99
EMI, conducted	FCC Part 15, class B
Mains connector	Rear side
Input protection	Internal fuse
Input switch	None

Output	
Voltage, nominal	54 V _{DC}
Voltage adjust	42 ... 58 V _{DC} (adjustable from
Voltage regulation	< ± 250mV
Overvoltage	59.5 V _{DC}
Ripple + spikes	£ 100 mV _{p-p}
Psophometric	£ 10.0 mV _{RMS} (weighted)
Power limit,	300W
Hold up time	20ms
Load sharing	< ± 5 %
Output connector	Rear side

User interface	
Status indication	LED «AC ON», Green
	LED «RFA/FF», Red
	LED «CL», Yellow

Power system controller	
Applicable	CSU 5
	CSU 501
	CSU 502

Mechanics	
Width, overall	75 mm / 2.95 in
Height, overall	40.5 mm / 1.59 in
Depth, overall	220 mm / 8.66 in
Weight (TBD)	» 1.0 kg / 2.2 lb

Environment	
Operating	-40...+75 °C (-40...+167 °F)
Power derating	+65...+75 °C (+149...+167F)
Storage	-40...+75 °C (-40...+167 °F)
Relative humidity	95 % max, non condensing
MTBF (Calculated)	300K hours (Telcordia SR-332)
Others	RoHS compliant