

## Main features

Efficiency 92 %  
 2700W nominal output  
 2300W output for temperature up to 65°C  
 Compact and light weight  
 Hot swappable, no system shutdown for maintenance  
 Wide input voltage range: 88 - 310 V  
 Power factor correction  
 Constant output power characteristic  
 Operating temperature range up to 75°C



## Applications

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

## Description

The rectifier CPR2700 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

General	
Efficiency	92.00%
Losses, max.	235W
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	34 W / inch <sup>3</sup>
Acoustic noise	55 dB(A) at 25 Degree C

Input	
Voltage range	88 ... 310 V <sub>RMS</sub>
Volt. range, red. power	88 ... 184 V <sub>RMS</sub>
Inrush current	< 21.8 A
Harmonic distort.	< 5 %
Power factor	> 0.99
EMI, conducted	FCC Part 15, class B
Mains connector	Rear side
Input protection	Internal fuse 25A x 1
Input switch	None

Output	
Voltage, nominal	54 V <sub>DC</sub>
Voltage adjust	40 ... 59.5 V <sub>DC</sub>
Voltage regulation	< ± 0.6 %
Overvoltage	59.5 V <sub>DC</sub>
Ripple + spikes	≤ 100 mV <sub>n-n</sub>
Psophometric	≤ 2.0 mV <sub>RMS</sub> (weighted)
Current limit,	50 A @ 54.0V <sub>DC</sub>
Power limit	2700W
Load sharing	< ± 5 %
Output connector	Rear side
Output characteristic:	

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

Power system controller	
Applicable controller	CSU5 (System type)
	CSU501 (Case type)
	CSU502 (Case type)

Mechanics	
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	2.0 kg (4.4 lb)

Environment	
Operating	-20... +75 °C (-40... +167 °F)
Reduced power	+55... +75 °C (131... +167 °F)
Storage	-40... +70 °C (-40... +158 °F)
Relative humidity	95 % max, non condensing
MTBF (Calculated)	300K hours (Telcordia SR-332)

\* Product specifications are subject to change without further notice