

# Centrix 48V/5600W

## Three Phase Rectifier



The Centrix 48V/5600W is a three phase rectifier which offers significant energy cost saving opportunities when replacing existing high power installations. Features include wide input voltage range and low input current distortion. Installation is simplified hot-pluggable connectors and fan cooling with speed control ensures near silent operations in central office environments. System capacity of upto 550KW is possible with Centrix rectifier platform

### Key Features:

- High efficiency of 94%
- Wide operating input voltage and temperature range
- Hot plugin for easy maintenance
- Silent operation and very low audible noise
- Designed to work in faulty neutral or unavailability of neutral
- TUV and CE Compliance

### Applications:

- Telecom: Hub sites, central offices, core network
- Data centres
- Fixed line applications

# Centrix 48V/5600W - Technical Specifications



AC INPUT	
Voltage	320 - 480V AC
Frequency	45-66Hz
Maximum Current	12.0A
THD	<10%
Power Factor	Typical 0.99
Input Protection	Off <310 - 490Vac < Off Self-protection upto 580Vac Line & Neutral input fuses
Galvanic Isolation	
Input to Output	3000 V ac
Input to Ground	1500 V ac
Output to Ground	500 V ac

DC OUTPUT	
Voltage	54.0V; Adj: 42.0 - 58.0V
Output Power	5600 W
Maximum Current	117A @ 48V 52A if two phases are available
Current Sharing	+/-5% of max. current
Static Voltage regulation	+/-0.5% from 10% - 100% load
Dynamic Voltage Regulation	+/-5% for 10% - 90% load
Dynamic Voltage Regulation	+/-5% for 90% - 10% load
Hold up time, Max Op. Power	> 10ms; output voltage > 42Vdc
Ripple Noise	<200 mV p-p 30MHz bandwidth
Output Protection	Over Voltage Shutdown Short Circuit Proof Inrush current limiting fuse Over Temperature Shut-Off
Efficiency	Peak 94%

Specifications are subject to change without notice

OTHER SPECIFICATIONS	
Operating Temperature	-40 to +75°C, Linear Derating from 50°C onwards
Storage Temperature	-40°C to +85°C
Cooling	5% to 95% non-condensing
Humidity	Forced Air
Acoustic Noise	Less than 55dB(A)
MTBF	>300,000 hrs. (25°C ambient)
Communication Interface	CAN bus
Control & Monitoring	M1000 controller
Dimensions	144 x 176 x 420 (mm)
Weight	9.8 kg
LED Indications	
Green	On: No Faults Flash - Rectifier comm. Ok Slow flash - Sleep mode
Yellow (Alarms)	On - Input low / high, Rectifier in power de-rate mode Current limit Flash - Rectifier Comm. fail
Red (Alarms)	On - Abnormal temp or input shutdown, Low O/p voltage alarm, Overvoltage shutdown on output Flash - Rectifier fan fail

APPLICABLE STANDARDS	
Electrical Safety	EN 60950
EMC/EMI	EN 55022, Class B
Environmental	EN 300 019-2-1/-2/-3

PART NO. DESCRIPTION	
HE-513020	Centrix 48V/5600W SMR

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