

Centrix 48V/5600W

Three Phase Rectifier



The Centrix 48V/5600W is a cost effective three phase rectifier for high power installations in telecom networks without compromising efficiency and reliability. Features include wide input voltage range, low input current distortion and the rectifier can work with unavailability of neutral as well. 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-HE 48V/5600W - Technical Specifications



AC INPUT	
Voltage (Nominal)	320 - 480Vac
Frequency	45 - 66Hz
Maximum Current	12.0A
THD	<5% (50% to 100% Load)
Power Factor	Typical 0.99
Input Protection	Off <320-480Vac < Off Self-protection upto 540Vac Input line fuses
Galvanic Isolation	
Input to Output	3000 Vac
Input to Ground	1500 Vac
Output to Ground	650 Vdc

DC OUTPUT	
Voltage	54.0V; Adj: 42.0 - 58.0V
Output Power	5600W
Maximum Current	117A @ 48V 52A if 2 phases available
Current Sharing	+/-5% of max. current
Static Voltage regulation	+/-0.5% for 10%-100% load
Dynamic Voltage Regulation	+/-5% for 90% - 10% load
Hold up time	>10ms
Ripple Noise	<200 mV p-p 30MHz bandwidth
Output Protection	Over voltage shutdown Short circuit proof Hot-plug inrush current limiting Output fuse Over temperature shut-off
Efficiency	94%

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 (wxhxd)	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, over-voltage shutdown on output Flash - Rectifier fan fail

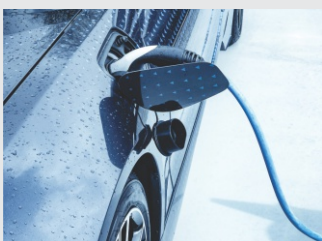
APPLICABLE STANDARDS	
Electrical Safety	EN 60950-1
EMC/EMI	EN 55022 (Class B), EN 55024
Environmental	EN 300019-1-1/-2/-3, ROHS complied

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

Specifications are subject to change without notice

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