

# Centrix-HE 48V/5800W

## Three Phase Rectifier



The Centrix-HE 48V/5800W is a three phase rectifier which offers significant energy cost saving opportunities when replacing existing high power installations. This rectifier boasts industry leading efficiency of 96% and high power density of 23W/in<sup>3</sup>. Other features include wide input voltage range and low input current distortion. Installation is simplified with hot-pluggable connectors while fan cooling with speed control ensures near silent operations in central office environments.

### Key Features:

- High efficiency of 96%
- 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
- Global compliance

### Applications:

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

# Centrix-HE 48V/5800W - Technical Specifications



AC INPUT	
Voltage (Nominal)	320 - 480Vac
Voltage (Extended)	230 - 530Vac
Frequency	45 - 66Hz
Maximum Current	12.0A
THD	<5% (50% to 100% Load)
Power Factor	Typical 0.99
Input Protection	Off <220-540Vac < 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	5800W, linear derating to 3kW @ 220Vac
Maximum Current	120A @ 48V
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	Peak 96% >95% for 30% - 90% load

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)	130 x 80 x 395 (mm)
Weight	5.2 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-513230	Centrix-HE 48V/5800W Rectifier

Specifications are subject to change without notice

Web: [www.exicom-ps.com](http://www.exicom-ps.com)

## Mobility Solutions



## DC Telecom Solutions



## ESS Solutions



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