

Technical Specifications (Centrix 48V, 5600W)

AC Input	
Voltage	320 – 480V ac (3 Phase Delta)
Frequency	45-66Hz
Maximum Current	< 12.0A
THDI	< 10%
Power Factor	Typical 0.99
Quiescent Power	< 15W typical
Input Protection	Off < 310 – 490V ac < Off Self Protection upto 580V ac Auto Shut-off, Auto-restart Line & Neutral input fuses MOV transient protection
Galvanic Isolation	
Input to Output	3000 V ac
Input to Ground	1500 V ac
Output to Ground	500 V ac

Other Specifications	
Operating Temperature	-40°C to +75°C, Linear derating from 50°C onwards
Storage Temperature	-40°C to +85°C
Cooling	Forced Air
Humidity: Operating	5% to 95% non-condensing
Storage	Upto 99% non-condensing
Acoustic Noise	Less than 55dB(A)
M TBF	>300.000 hrs. Telcordia SR-332
Dimensions	144 x 176 x 420 (mm) 5.7" x 6.9" x 16.5"
IP rating	IP20
Weight	9.8kg (21.3 lbs)
Alarms	AC Input Abnormal AC over / Under Voltage Rectifier OK /Fail Communication Failure Fan Fail Output OVP Output Low Voltage 2 Phase Operation Temperature Shut Down
Visual Indicator	Rectifier OK / Fail AC Over / Under Voltage Communication Fail Fan Fail / Temp. Shut Down

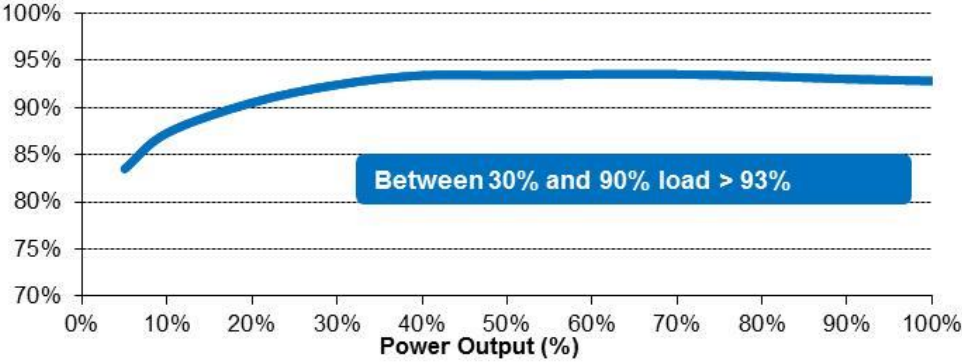
DC Output	
Voltage	54.0V; Adj: 42.0 - 58.0V
Output Power	5,600W
Maximum Current	117A at 48V 52A if two phase are available
Current Sharing	+/-5% of max. current above 10% Load
Static Voltage regulation	+/-0.5% from 10% - 100% load
Dynamic Voltage Regulation	+/-5% for 10% - 90% load
Ripple Noise	<300 mV p-p 30MHz bandwidth <2mVrms psophometric
Output Protection	Over Voltage Shutdown Overload Foldback Short Circuit Proof Output Fuse Protection Over Temperature Shut-Off Inrush Current Limiting
Efficiency	Peak 93.0% (see graph)

Applicable Standards	
Electrical Safety	EN 60950
EMC	EN 61000-6-1
	EN 61000-6-2
	EN 61000-6-4
	EN 61000-3-2
Harmonics	EN 61000-6-3
Environmental	EN 300 019-2-1
	EN 300 019-2-2
	EN 300 019-2-3

Part No. Description	
HE513020	Centrix 48V, 5.6KW SMR

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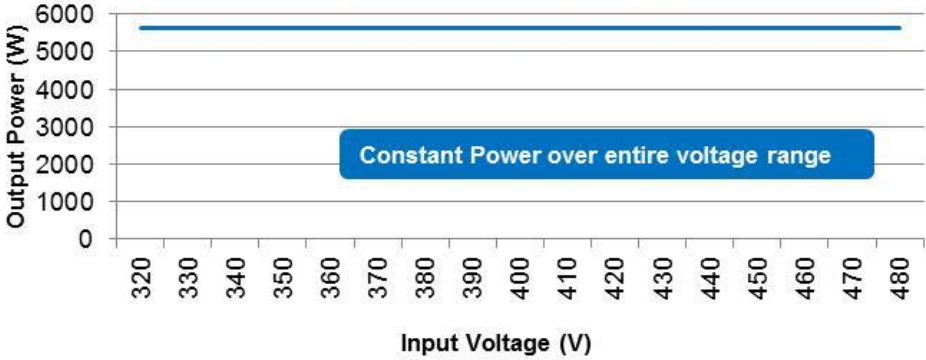
Efficiency Graph



Almost flat efficiency curve between 30% and 90% load

Peak Efficiency of >93%

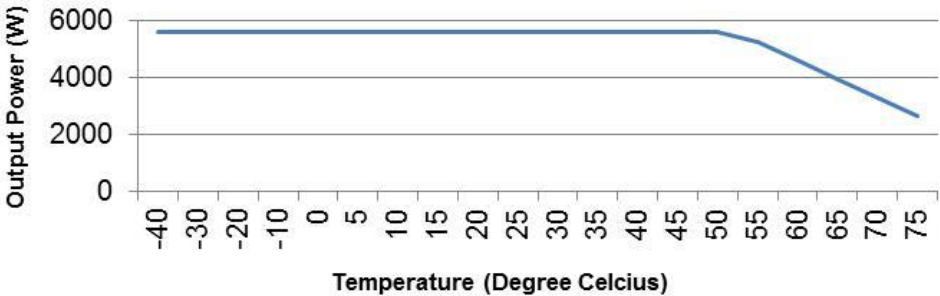
Output Power Vs. Input Voltage



Wide operating voltage of 320V-480V

The rectifier delivers constant power of 5600W over the entire voltage range

Output Power Vs. Temperature



Wide temperature operating range from -40 to +75 degree Celcius

Power de-rating beyond +50 degrees till 75 degrees (2670W)



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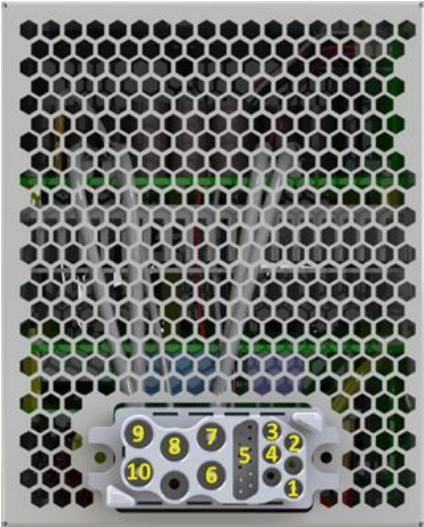
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Our vision is to enable CO2 neutral energy solutions for our customers with an attractive Opex and CapEx solution

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LED Indications and Connector Details



LED Indication & Description	
Green	ON - AC OK OFF - AC Fail Flash - SMR Comm OK Slow Flash - Sleep Mode
Yellow	OFF - Normal Flash - SMR Comm Fail ON - AC Low / High Cutoff I/P Voltage Temperature De-Rating Output De-rating
Red	OFF - Normal Flash - SMR Fan Fail ON - High Temp Shutdown Output Overvoltage Output Undervoltage AC Low / High Cutoff

Connector Details

1	2	3	4	5	6	7	9	10	8
AC Input Pins				Comm Pins	DC Output Pins				Hot Swapping
Earth	Yellow	Red	Blue	Comm Pins	Negative		Positive		