

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 |

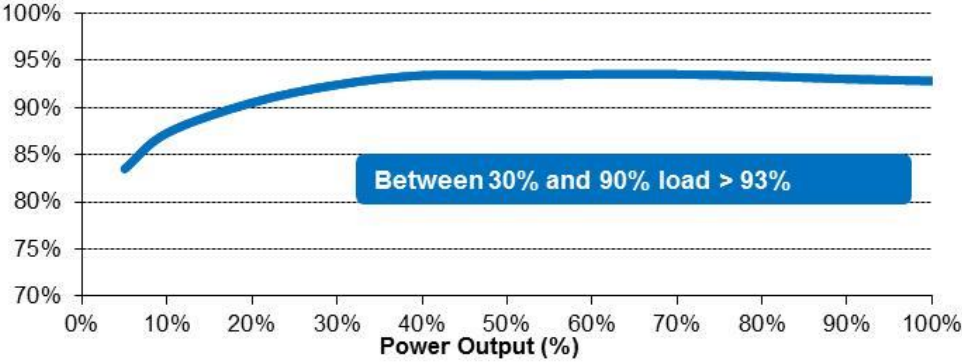
| DC Output | |
|----------------------------|---|
| Voltage | 54.0V; Adj: 42.0 - 58.0V |
| Output Power | 5,600W |
| Maximum Current | 117A at 48V 52A if two phase are available |
| Current Sharing | +/-5% of max. current above 10% Load |
| Static Voltage regulation | +/-0.5% from 10% - 100% load |
| 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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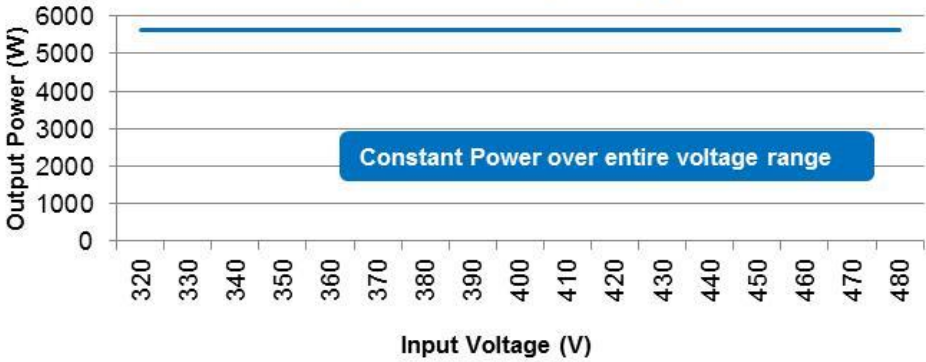
Efficiency Graph



Almost flat efficiency curve between 30% and 90% load

Peak Efficiency of >93%

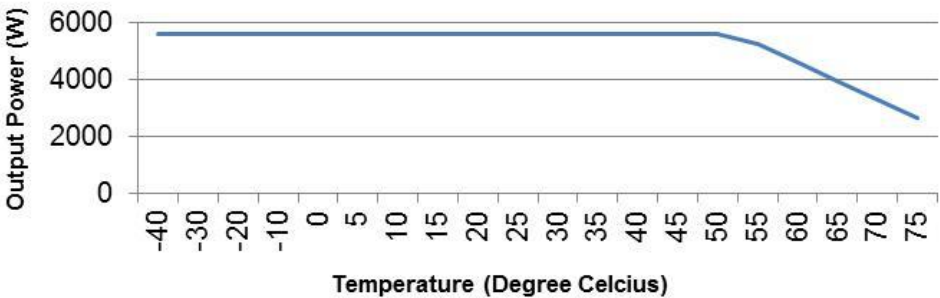
Output Power Vs. Input Voltage



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 Celsius

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



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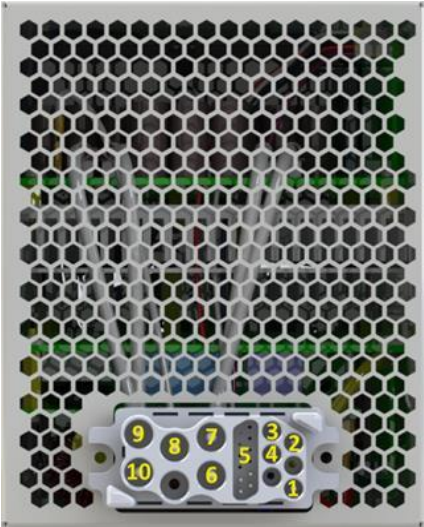
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Our vision is to enable CO2 neutral energy solutions for our customers with an attractive Opex and CapEx solution

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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 | | |