



Rotary Power Generators

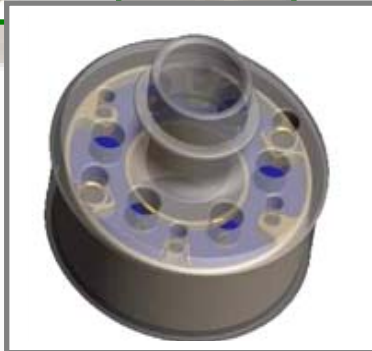
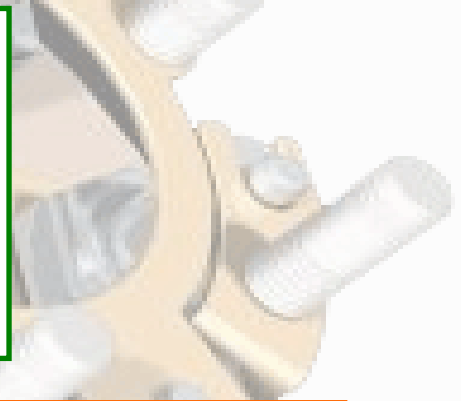
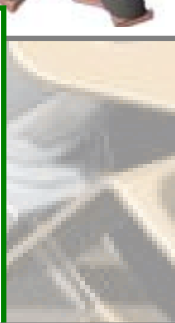
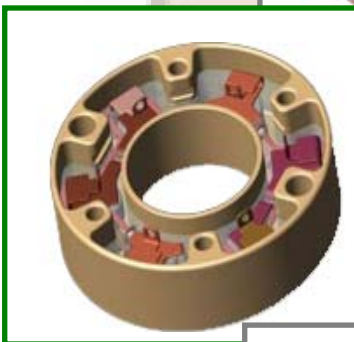
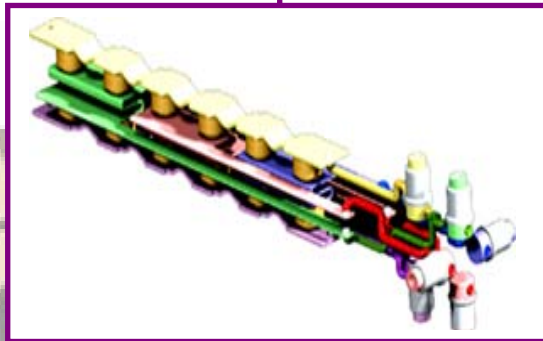
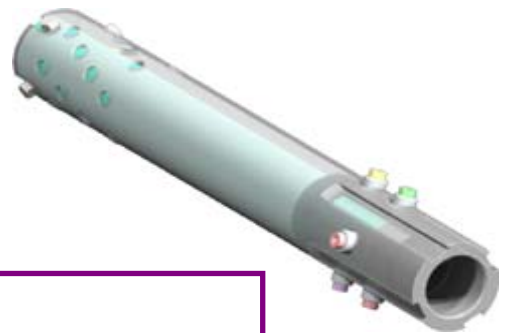
Rotating Rectifier Assemblies

Sensitron

www.sensitron.com/rotating.asp

General Overview

- **Voltage Rating per leg:** 600V / 1200V
- **Type of Rectifier:** Standard / Fast
- **Current Rating of Bridge:** Up to 120A
- **Operating Temperature:** Up to 160°C
- **Environment:** Compatible to Oil and other Airborne Fluids
- **Mechanical Rigidity:** Up to 35,000 RPM
- **Dimensions:** Available in 1" to 4"



Tools and Analysis

Sensitron

www.sensitron.com/rotating.asp

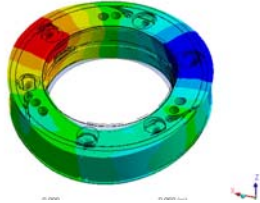
SolidWorks / Autodesk Inventor

- 3D Modeling
- Tolerance Analysis
- Interference Check

3-D Modeling



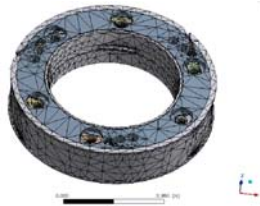
Thermal Modeling



ANSYS

- Thermal Analysis (transient & steady-state)
- Mechanical (stress) Analysis
- Thermal-Mechanical Coupled Analysis
- Center of Mass / Dynamic Balancing Analysis
- Weight Estimation

Stress Analysis

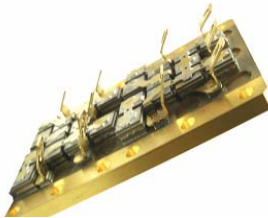


Rapid Prototype



High Power Rectifier Bridges

**Direct Oil-Cooled
Rectifier**
600V, 300 A



**High Power Full Wave
3-Phase Bridge Series**
from
1000V, 30A



3-Phase Full Wave Bridge
600V, 140A



Diode Module
1200V, 500A



Reliability Assessments

Reliability Analysis

- MIL-HDBK 217F

Fracture & Fatigue Analyses

- Crack tip analysis
- Materials examination
- Fundamental FEA computation

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<http://www.sensitron.com>

SENSITRON SEMICONDUCTOR

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FEATURED PRODUCT

DC BRUSHLESS 3-PHASE DSP MOTOR CONTROL
Sensitron's Sensorless DC Brushless 3-Phase DSP Motor Controller is a complete motor control system. Sensitron's DSP controllers are rated at 600V, 70A suitable for motors up to 6KW operating off the 270V dc bus [more...](#)

IN THE NEWS

December 2007- Sensitron has developed a small footprint High Voltage and High Current DC Solid State Relay/Contactor. This device incorporates the latest state of the art [more...](#)

November 2007- Sensitron's Cobra Series of Programmable Multi-Channel Solid State Power Controllers is a six-channel, microcontroller based, Solid State module designed to [more...](#)
[2007 News Archive](#)

PARAMETRIC TREE

Schottky Rectifiers (ALL)

MARKETS / SOLUTIONS

POWER ELECTRONICS

- 3 Phase/ Motor Controllers/Drivers
- Power Conversion Products
- Power Factor Correction
- Solid State Power Solutions
- Hi-Reliability Battery Charger

SEMICONDUCTORS

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 - Silicon Carbide Rectifiers
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 - Oil Cooled /Rotating Rectifier
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 - TVS
 - Zeners
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 - MOSFETs/MOSFET Modules
 - Amplifiers
 - Voltage Regulators
- DIE PRODUCTS**

KEYWORD SEARCH

www.sensitron.com

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TOP PICKS

- Our Product Line
- Cross Reference

Sensitron
221 West Industry Court
Deer Park, NY 11729-4681
Phone: (631) 586-7600
Fax: (631) 242-9798
sales@sensitron.com
www.sensitron.com