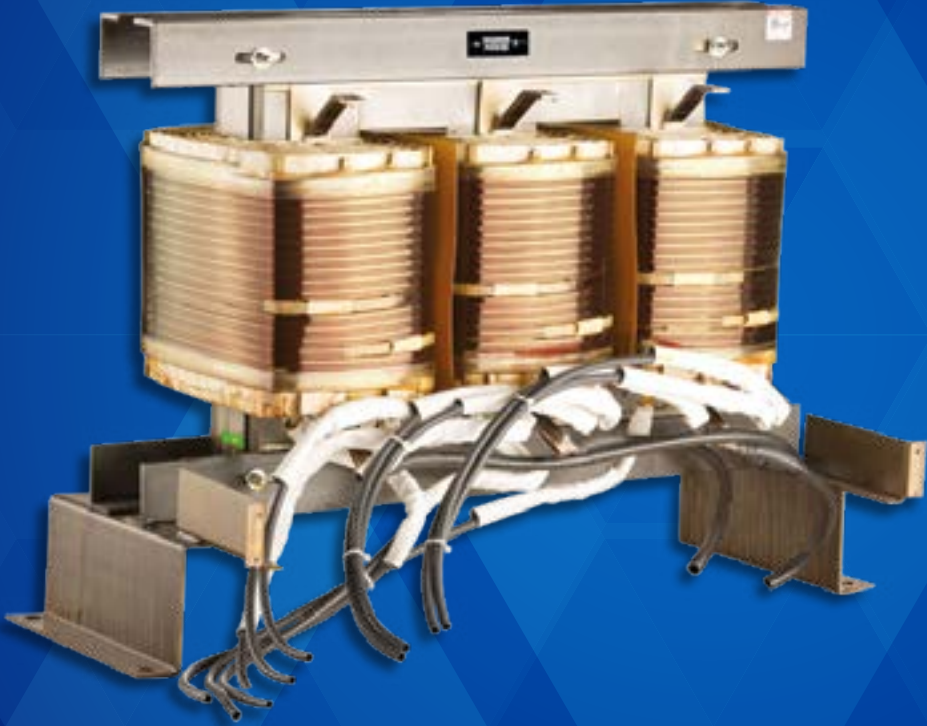


CUSTOM MAGNETICS AND INDUSTRIAL POWER SUPPLIES



GRAND POWER
SYSTEMS

CUSTOM MAGNETICS

Custom Magnetics and Transformers

At Grand Power Systems, we design and manufacture a broad range of magnetic components and dry type transformers. We partner with your engineering and manufacturing teams to provide the magnetic components and subsystems your equipment or process needs. Our products are built for industrial applications and meet all applicable ANSI, IEEE, CSA, UL, IEC and EN safety and performance standards. Our manufacturing and supply chain capabilities ensure a product of the highest quality shipped when you need it.

Transformers

Up to 20,000V, Up to 15,000A, 5kVA to 1,500KVA

Type

- ▶ Three Phase
- ▶ Single Phase
- ▶ Drive Isolation
- ▶ Encapsulated
- ▶ Autotransformers
- ▶ Zigzag
- ▶ Phase Shifting
- ▶ 12/18/24 Multi-pulse
- ▶ Impedance Matching
- ▶ K-factor Rated
- ▶ Rectifier
- ▶ Scott – T

Options

- ▶ Customer specified In-rush, Impedance & Efficiency
- ▶ Cooling by Convection, Forced Air, or Water
- ▶ Customized Thermal Designs
- ▶ Aluminum or Copper Windings
- ▶ Delta, Wye, or Scott-T Connections
- ▶ Multiple Taps on Primary and/or Secondary
- ▶ Tap Selector Switches, Meters and other devices
- ▶ Circuit Breakers, Fuses, Disconnects
- ▶ Thermal Cut-offs and Sensors
- ▶ EMI / RFI Filtering
- ▶ Electrostatic Shielding
- ▶ Custom Enclosures to any NEMA, CSA or EN Level
- ▶ UL, CSA, CUL, CE Agency Approvals DOE 2016
- ▶ High Efficiency

Inductor / Choke / Reactors

Up to 20,000V, Up to 15,000A. Inductance uH to H. Energy 10J to 2000J

Type

- ▶ Single Phase
- ▶ Three Phase
- ▶ Saturable-core Reactors
- ▶ E & I, Wound, or Cut Core Construction

Options

- ▶ Custom Inductance
- ▶ Tuned Adjustable Filters
- ▶ Custom Capacitor and Resistor Configurations (See Transformer Options)



Single Phase Transformers up to 1500 KVA

- ▶ UL/cUL 5085 & 1561 Listed & Recognized from 25VA up to 500KVA
- ▶ Isolation, Auto, Encapsulated, K-Rated, High Efficiency, Low Inrush, High Reactance
- ▶ 50/60 – 400HZ



Three Phase Transformers up to 1500KVA

- ▶ UL/cUL 5085 & 1561 Listed & Recognized
- ▶ UL/cUL 1561 Listed from 10KVA to 30KVA Autotransformer
- ▶ Isolation, Auto, Drive Isolation, Elevator Duty, Multipulse (12, 18, 24), Encapsulated, K-Rated, High Efficiency, High Reactance, Harmonic Mitigating, Zig-Zag, Scott-T
- ▶ 50/60 – 400HZ



AC Reactors and Inductors

- ▶ Single and Three Phase up to 1000KVAR
- ▶ Line and Load Inductors, PWM/High Frequency - Filter Inductors, DV/DT, Air Cores, 5-Leg, Low Profile, Trap, LCL, Low to High Impedance Range, Tightly Balanced and Matching Inductor Sets, Low Audible Noise
- ▶ 50/60 – 20KHZ



DC Chokes and Inductors

- ▶ DC Links, Boost Inductors, Charging Inductors, Filter Inductors, Chokes
- ▶ 120 – 20khz, up to 2500ADC

INDUSTRIAL POWER SUPPLIES

Power Systems

Utilizing our comprehensive power electronics, magnetics and digital/analog control capabilities, our custom-designed power systems deliver precise power to your application. We provide a wide range of turn key power conversion solutions.

Power Supplys

Up to 20,000V, Up to 15,000A, 5kVA to 4MVA

Type/Control

- ▶ AC / AC
- ▶ AC / DC
- ▶ Single or Multiple Output
- ▶ Regulated or Unregulated Output
- ▶ SCR
- ▶ 6/12/18/24 Pulse Rectifiers
- ▶ Slaved or Independent Zones
- ▶ Variable Transformer
- ▶ Saturable-core Reactor

Options

- ▶ Voltage, Current, or Power Control
- ▶ Output Regulation Control to less than +/-1/2%
- ▶ Local, Remote, or Computer Control
- ▶ Analog or Digital Interface / Metering
- ▶ Harmonic Mitigation / Power Factor Correction
- ▶ Convection, Forced Air, or Liquid Cooling
- ▶ Custom Control Architectures
- ▶ Custom Control Panel Assemblies
- ▶ Ground Fault Circuit Protection
- ▶ Primary or Secondary Controlled
- ▶ UL/CSA/CE Compliance Available
- ▶ Multiple Communications Protocols
- ▶ High Efficiency Design
- ▶ See Transformer Options



- ▶ DC power supply
- ▶ AC Input Voltage 230 – 600V
- ▶ DC Output up to 1000V
- ▶ Output Current up to 36,000A
- ▶ 5% RMS Ripple
- ▶ Dry type or water cooled



- ▶ AC power supply
- ▶ AC Input Voltage 230 – 15KV
- ▶ AC Output up to 20kV
- ▶ Output Current up to 20,000A
- ▶ Regulation to ½%



- ▶ Rectifiers
- ▶ 6/12/18/24 Pulse
- ▶ AC Input Voltage 230 – 600V
- ▶ DC Output up to 600V
- ▶ Current up to 10,000A
- ▶ Regulated or Unregulated

WHO ARE WE?

Grand Power Systems, Inc is a U.S. based manufacturer of engineered electrical products creating solutions for the commercial OEM and industrial markets.

Our customers include Fortune 500 Companies in the Drives, Elevator, Machine Tool, Ground Power, Datacenter and Glass Manufacturing industries.

At GPS our purpose is to provide the right solution for you. With a focus on engineering support during the application, design, and prototyping phases of development, our goal, is to deliver the best solution for your needs.

Trust us with your development requirements, we will provide exceptional service and results in every phase of your project.

INDUSTRIES WE SERVE

- ▶ Oil and Gas
- ▶ Industrial Furnace
- ▶ Metal Processing
- ▶ Elevator Equipment
- ▶ HVAC
- ▶ Electrochemical Coatings
- ▶ Plant Maintenance and repair
- ▶ Industrial Microwave
- ▶ Alternative Energy
- ▶ Battery Charging
- ▶ Glass Manufacturing
- ▶ Plant Automation
- ▶ Data Centers
- ▶ Robotics Machinery
- ▶ Power Quality Equipment
- ▶ Drive Manufacturing
- ▶ Industrial Heating
- ▶ Crystal Growth

GrandPowerSystems.com

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