Features

- Worldwide AC Input Capabilities: Up to 600VAC, 3Ph
- Digital Signal Processing for Advanced Control
- High Efficiency
- Parallelable
- Indoor and Outdoor Configurations Available
- 6kVA to 1000kVA
- 100% Burn-In
- 1 Year Warranty
- UL 1012, NEC, NEMA, ANSI, IEEE

Description

The unit is a solid state 400Hz power supply consisting of a SCR regulated full-bridge rectifier, DC filter, controls and monitoring. The 400Hz power supply is designed and constructed using UL listed components and conforms to standards as described below. The inverter is PWM controlled using IGBT 400Hz power switching devices.

Input Parameters

Configuration: 120 - 600V AC*
Frequency: 50 Hz - 400 Hz*
Disconnect Devices: Circuit Breaker
Current Limit: Electronically Controlled

Output Parameters

Output Frequency: 400 Hz standard, 60 Hz or 50 Hz optional
Voltage Regulation: ± 1%
Voltage Modulation: ± 0.25%
Frequency Regulation: Crystal controlled to +/- 0.05%
Load Power Factor: .8 leading to .5 lagging
Transient Response: 80 msec, per Mil Std 704 E
Overload Capacity: 110%-60 Min, 125%-5 Min, 150%-2 Min, 200%-20 Sec, 300%-6 Sec.

Harmonics (THD): 2% maximum, 1.0% single harmonic
Phase Angle: 120 degree ± 1% balanced load
Efficiency: 92% Full Load
No Load Losses: 5%

Protection

Input
- Circuit Breaker
- Under/Over Voltage
- Mechanical Interlock
- Loss of Phase
- Surge Protection, C62.41, B

Output
- Contactor
- Under/Over Voltage
- Output Overload
- Internal Over Temp
- Internal Over Current

Metering

Digital, programmable multi functional LCD Display

Front Panel Devices

Power On Indicator
Start/Stop Pushbutton
Fault/Reset Pushbutton
Fault Indicator
Emergency Power Off
E&F Bypass Switch

Environmental

Enclosure Type: NEMA 12, Ventilated or NEMA 3R
Outdoor (Enclosures can be custom configured.)
Color: Manufacturer’s Standard
Temperature Range:
- Ambient: 0°C to 55 C
- Storage: -20°C to +70°C
Cooling: Forced Air
Altitude: Up to 6000 Feet, standard (higher optional)
Relative Humidity: Up to 95%, non condensing
Audible Noise: 70dB at 3 feet, 12 Pulse Design

Mechanical

Dimensions: Varies, depending upon configuration
Weight: Varies, depending upon configuration

*Item varies upon configuration