

# Jetpower® IV 400 Hz Ground Power System



An Oshkosh Corporation Company

**JETWAY SYSTEMS®**  
For the Perfect Turn

# Jetpower® IV 400 HZ Technical Specifications

Fully compatible with 380 / 480 Volt, 3 phase, 50/60 Hz input power, maintenance-free operations, robust NEMA 4R protection, and rated for service from -40°C to +55°C, the Jetpower® IV converter provides clean, reliable, 400 Hz power where you need it, when you need it, every time.

## Maximum Input Current

380 V.	126 Amps
400 V.	120 Amps
415 V.	116 Amps
480 V.	100 Amps

## Dimensions (horizontal mounting)

Width	48" (1.22 m)
Height	24" (.61 m)
Depth	29" (0.74 m)

## Weight (approximate)

900 lbs. (408 kg)

## Housing

Electronic section is NEMA 4 (IP55) enclosure with an aluminum case and structural members. Custom colors are available.

## Environmental Conditions

Capable of normal operation from -40°C to +55°C (-40°F to +131°F).

## Noise

Not greater than 65 dBA at 1.5 m height, 1 m distance.

## Maintenance

No preventative maintenance required. Mean Time To Repair (MTTR) 30 minutes at module level. Reduced part count and increased circuit and component protection enhance reliability.

## Input

- AC Power: 380-480 Volt, 3 phase, 50/60 Hertz, at -15% to +10% of nominal voltage rating. Unit is phase rotation independent.
- Starting Current: Starting inrush not to exceed 100% current required when operating at rated output.
- Power Factor: From 25% to 100% rated load, input power factor is greater than 0.95.
- Efficiency: Greater than 92% at any load above 50% of rated load.

## Output Voltage, Frequency, and Phase

- Voltage Drift: Less than 1% at constant load (ambient temperature change 55°C in 8 hours).
- Voltage Regulation: Better than 1%.
- Total Harmonic Distortion: Less than 3% (line-to-line/line-to-neutral). Individual harmonics less than 2%.
- DC Content: Less than 100 mV.
- Voltage modulation: Less than 0.5% as measured from the peak of one waveform to the peak of another adjacent waveform under steady rated load conditions.
- Transient Performance: Output voltage recovery less than 50ms at 100% load change.
- Voltage Operating Range: +/- 10% of rated voltage
- Output Frequency Regulation: 400 Hz +/- 0.1%
- Phase Displacement: 120" +/- 1.5"



## Overloads and System Protection

- Overload Capacity: 125% for 10 minutes, 150% for 30 seconds, 200% for 10 seconds.
- Protection: Input & Output Over or Under Voltage, Output Overload, Loss of E/F, E/F Over Voltage, Bus Discharge Fault, Heat Sink Over Temperature, Output Frequency Fault, and an IGBT Fault.

## Internal Controls and Indicators

- Auto/manual Switch—Voltage Control
- 28 Volt E/F Interlock Bypass Switch
- Start/Stop Control
- Line Drop Compensation
- DC Bus Voltage Adjustment
- LCD Display Contrast Adjustment
- Voltage Adjustment (+/- 10%)
- Hour Meter (99,999 hrs.)

## External Front Panel Lights

- Controls and HMI LCD Screen with push button controlled lights

## Options

- 12-Step Input Rectifier
- Vertical Mounting
- 28 VDC Unit
  - Output Current: 0 to 600 amps (continuous)
  - Up 2000 amps (engine starting)

This information is provided for reference only and should not be used as technical specification data. This information is subject to change without notice. Please contact an AeroTech sales office for formal technical information.

Website: [www.oshkshaerotech.com](http://www.oshkshaerotech.com)

