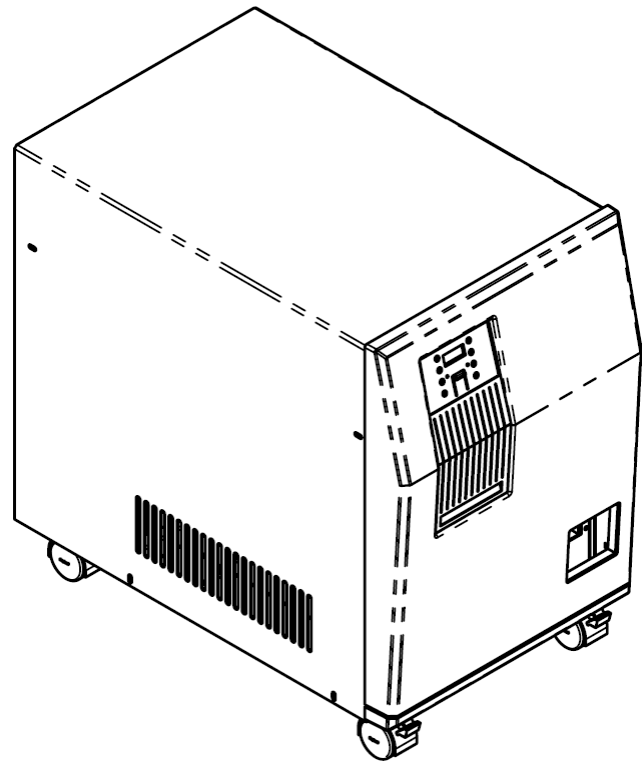


1 - 15 kVA
Single Phase



INTRODUCTION

The Series 800A Commercial Power Purifier is a self-regulating isolation transformer designed to convert polluted, fluctuating, and erratic electrical power into clean, stable output suitable for sensitive electronic equipment. It provides comprehensive protection against voltage disturbances, harmonics, noise, and transient events commonly present in commercial and industrial environments.

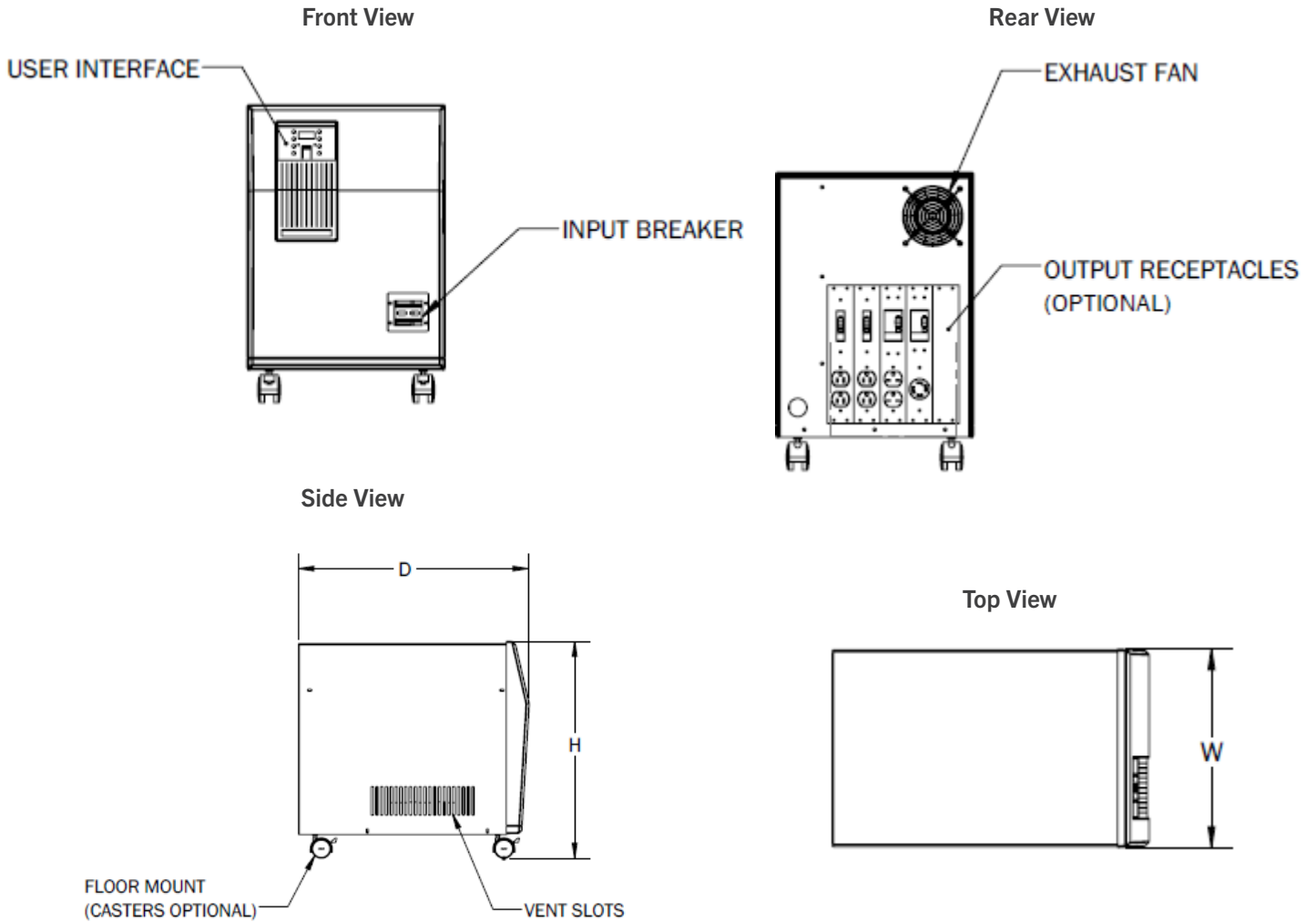
Key Features

- **Ferroresonant Isolation Transformer**
Provides protection against line disturbances, noise, surges, spikes, and transients
- **Ride-Through Capability**
Maintains output power during short-duration outages up to one full cycle
- **Harmonic Mitigation (K-30 Rated)**
Eliminates harmonic currents and prevents overheating of wiring and transformers
- **Power Disturbance Protection**
Addresses up to 99.5% of common electrical power problems
- **Short-Circuit Protection**
Output voltage safely drops during faults and automatically recovers after clearing
- **Waveform Conditioning**
Produces a clean, transient-free sine wave independent of distorted input

SPECIFICATIONS

Power	
Variable Range Regulation (VVR)	
Input Voltage Tolerance	+10% to -20% (typical load) Up to -40% at 50% load
Output Regulation	±3% output for +10% to -20% input
Ride-Through Performance	Support load continuity for: 1/4 cycle (~4 ms) 1/2 cycle (~8 ms) 1 full cycle (~16.6 ms, load dependent)
Waveform Immunity	Output voltage remains stable regardless of distorted or transient-laden input waveforms
Extended Input Range (VRR)	+10% to -40%
Load Regulation	3-4% (0-100% load)
Voltage Recovery	95% within 2 cycles; 100% within 3 cycles
Efficiency	90% at full load
Frequency	60 Hz (50 Hz optional)
Distortion	5% maximum at full load
Frequency Sensitivity	1% input change ≈ 1.5% output change
Leakage Current	≤ 20 μA (1-3.5 kVA models)
Operating Temperature	-20°C to +40°C
Transverse Mode Noise	120 dB
Common Mode Noise	140 dB
140 dB	45-60 dB (size dependent)

DIMENSIONAL DRAWINGS



MODEL #	WIDTH (INCHES)	DEPTH (INCHES)	HEIGHT (INCHES)	WEIGHT (POUNDS)
5AAX-1K-8-A	8.5	12.75	17.5	46
5AAX-1.6K-8-A	8.5	12.75	17.5	62
5AAX-2.1K-8-A	8.5	12.75	17.5	65
5AAX-2.15K-8-A	8.5	12.75	17.5	68
5AZX-3.5K-8-A	8.5	12.75	17.5	72
5MZX-3.5K-8-A	8.5	12.75	17.5	72
5MZX-5K-8-A	15	23.75	22.5	176
5MZX-7.5K-8-A	15	23.75	22.5	210
5MZX-10K-8-A	15	23.75	22.5	256
5MZX-15K-8-A	15	23.75	22.5	314

