



U.S. PATENT No. 6,178,101

7kVA FREQUENCY CONVERTER

PS-94-451-1

400Hz

The PS Series is the sixth generation in a family of frequency converters, which has seen extensive military and commercial use. The product line is used in research laboratories, production line testing, onboard aircraft and ships, and in many other applications where precise AC power is required. The series is unique in its ability to operate from any standard worldwide power source.

INPUT

VOLTAGE RANGE	115/200 VAC ±10%
CONFIGURATION	3Ø, WYE, GROUNDED NEUTRAL
FREQUENCY RANGE	30 - 600 Hz
POWER FACTOR	≥ 0.99
INPUT CURRENT DISTORTION	≤ 5% AT NOMINAL INPUT VOLTAGE AND FULL RATED LOAD
PHASE ROTATION	ANY
PROTECTION	OVER/UNDER VOLTAGE, LOSS OF PHASE, OVERCURRENT, SHORT CIRCUIT

OUTPUT

POWER*	7 kVA CONTINUOUS
VOLTAGE**	115/200 VAC ±0.05%
FREQUENCY***	400 Hz
CONFIGURATION***	THREE PHASE
POWER FACTOR RANGE	0.8 LAGGING TO 0.8 LEADING
DISTORTION	2% THD MAXIMUM
EFFICIENCY	≥85% AT FULL LOAD RATING
OVERLOAD	125% FOR 5 MINUTES 175% FOR 10 SECONDS
PROTECTION	OVER/UNDER VOLTAGE, OVERLOAD, SHORT CIRCUIT

*PARALLELING OPTIONS AVAILABLE FOR POWER GRID EXPANSION

**ALTERNATE VOLTAGES AND FREQUENCIES AVAILABLE, CONTACT FACTORY

***ALTERNATE CONFIGURATIONS AVAILABLE, SEE CHART ON REVERSE

FEATURES

- LOW INPUT CURRENT DISTORTION
- HIGH INPUT POWER FACTOR
- STOPLITE BITE™ SELF-DIAGNOSTIC SYSTEM
- SMALL SIZE AND LIGHT WEIGHT

DIGITAL MONITORING

OUTPUT VOLTAGE, CURRENT, FREQUENCY, kVA AND kW'S, AMONG OTHER DATA

CONTROLS AND INDICATOR LAMPS

SYSTEM RESET SWITCH, INPUT POWER ON/OFF SWITCH, AND INPUT POWER ON INDICATOR

MECHANICAL

MOUNTING	19" RACK MOUNT
CONNECTIONS	INPUT: MS3102R24-22P OUTPUT: MS3102R28-22S
COOLING	SELF-CONTAINED FAN (SLOW SPEED FOR LOW AMBIENT NOISE)

ENVIRONMENTAL

	MIL-STD-810
TEMPERATURE	✓
ALTITUDE	✓
EXPLOSION-PROOF	✓
SHOCK	✓
VIBRATION	✓
HUMIDITY	✓

	MIL-STD-461
EMI****	✓

This product was manufactured in a plant whose quality management system is registered to ISO 9001:2015.

Unitron Power Systems • 10925 Miller Rd • Dallas, TX 75238
Sales: +1-800-527-1279 • Service: +1-214-343-7597 • Fax: +1-214-341-2099
info@UnitronLP.com • www.UnitronLP.com

ADDITIONAL PS-94-451 SERIES CONFIGURATIONS

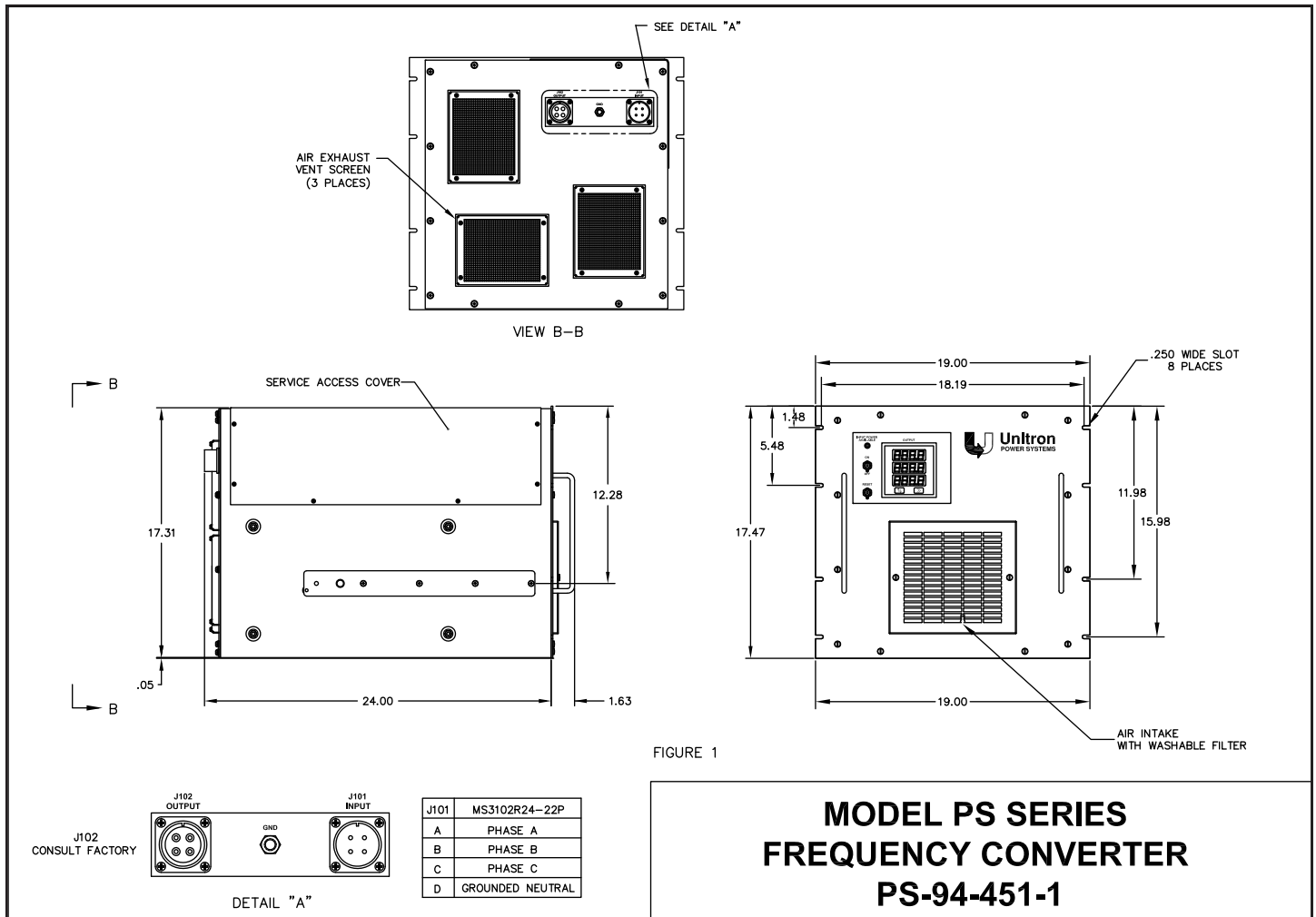
INPUT FREQUENCY	OUTPUT FREQUENCY (Hz)			OUTPUT VOLTAGE		PARALLEL OPTION	NOTES	MODEL NUMBER
	50	60	400	VOLTS	CONFIG			
30 Hz to 800 Hz***			X	115/200	3Ø			PS-94-451-1
		X		115/200	3Ø			PS-94-451-2
	X			115/200	3Ø			PS-94-451-3
			X	115	1Ø		1	PS-94-451-4
		X		115	1Ø		1	PS-94-451-5
	X			115/230	1Ø			PS-94-451-6

NOTES:

1. SINGLE PHASE OUTPUT OPERATION USES DIFFERENT OUTPUT CONNECTOR; CONTACT FACTORY FOR DETAILS.

PS-94-451-1

WEIGHT 115 LBS



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

REV G

This product was manufactured in a plant whose quality management system is registered to ISO 9001:2015.

Unitron Power Systems • 10925 Miller Rd • Dallas, TX 75238
 Sales: +1-800-527-1279 • Service: +1-214-343-7597 • Fax: +1-214-341-2099
 info@UnitronLP.com • www.UnitronLP.com