

## PS SERIES PORTABLE POWER SYSTEM



**MODEL NUMBER: PS-95-448-2**  
**U.S. PATENT NO. 6,178,101**  
**U.S. PATENT NO. 7,952,840**  
**NSN 6130-01-590-4993**

### INPUT:

Voltage Range	115/200 VRMS $\pm$ 10%
Configuration	3-Phase, wye
Frequency Range	30 to 800 Hz
Power Factor	$\geq$ 0.99
Input Current* Distortion	$\leq$ 5% at nominal input voltage and full load
Protection	Circuit breaker, over/ undervoltage, loss of phase, overcurrent

### OUTPUT:

Power	3.5 kVA continuous
Overload	125% for 5 minutes, 175% for 10 seconds
Configuration	Single phase
Voltage****	115 VRMS $\pm$ 1.0%
Frequency****	60 Hz $\pm$ 0.1%
Distortion	2% THD maximum
Power Factor Range	0.75 lagging to 0.75 leading (not damaged by any power factor load)
Efficiency	89% typical at full load rating
Protection	Over/undervoltage, overload, short circuit Duplex receptacles individually circuit breaker protected.

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

### APPLICATION:

Since its beginning in 1960, Unitron has focused on the design and development of reliable solid-state power systems. The PS Series is the sixth generation in a family of frequency converters, which has seen extensive military and commercial use. The PS Portable Power System is a transportable method of establishing a multiple receptacle, 60 Hz power buss to operate electrical equipment while onboard commercial and military aircraft, including aerial refueling aircraft. The system is field-proven with the C-17, C-130, C-141 and KC-135 aircraft.

### FEATURES:

One Person Carry-on System (MIL-STD-1472F) • Low Input Current Distortion • High Input Power Factor • StopLite BITE™ Self-Diagnostic System • LED Displays for Current Monitoring • Detachable Input Cable • Small Size and Light Weight • High Reliability • 36 Month Warranty

### OPTIONS:

Detachable 25', type SO, flexible cable with MS connector, which connects to aircraft interface receptacle MS3102A18-10S • Mobile (wheels) Kit - factory installed • Ride through capacity operating from MIL-STD-704A input power while providing output power IAW MIL-STD-704F

### MECHANICAL:

Size	13" height, 10.5" width, 22" depth
Weight	$\leq$ 44 lbs. typical
Handling/ Securing Connections	Dual-handle grips, (wheels optional) <u>Input:</u> MS3102R18-11P <u>Output:</u> Three hospital-grade spark elimination, non-locking, 15A, 2-pole, 3-wire duplex receptacles (NEMA 5-15R)
Cooling	Self-contained fan (slow speed for low ambient noise)

### ENVIRONMENTAL:

Temperature	MIL-STD-810, Method 501.3, 502.3 (-26°C to +60°C operating; -46°C to +71°C storage)
Altitude	MIL-STD-810, Method 500.3 (15,000 ft. operating, 45,000 ft. rapid decompression)
Explosion-Proof Shock	MIL-STD-810, Method 511.3 MIL-STD-810, Method 516.4 (10g operational, 20g crash)
Vibration Humidity	MIL-STD-810, Method 514.4 MIL-STD-810, Method 507.3, Cycle 1
EMI**	IAW MIL-STD-461D

\*  $\leq$  10% above 600 Hz

\*\* EMI option available RTCA DO-160D, Section 20, 21

\*\*\*Alternate voltages and frequencies available, contact factory.

## ADDITIONAL PS SERIES CONFIGURATIONS

INPUT FREQUENCY	OUTPUT FREQUENCY (Hz)			OUTPUT VOLTAGE		EMI		PARALLEL OPTION	NOTES	MODEL NUMBER	
	50	60	400	VOLTS	CONFIG.	MIL-STD-461D	RTCA/DO-160D				
30 Hz to 800 Hz	X			115/230	1Ø		X			PS-94-444-7	
		X		100	1Ø	X				PS-94-444-11	
		X		115	1Ø	X				PS-94-444-12	
		X		115	1Ø		X			PS-94-444-2	
		X		115	1Ø	X		X	1	PS-94-444-4	
		X		115	1Ø	X		X	2	PS-94-444-15	
		X		115	1Ø		X	X	1	PS-94-444-10	
		X		115	1Ø		X	X	2	PS-94-444-13	
		X		115	1Ø	X			3	PS-95-448-1	
		X		115/200	3Ø	X					PS-94-444-20
		X		115/200	3Ø		X				PS-94-444-5
		X		115/230	1Ø		X				PS-94-444-8
			X	115	1Ø		X				PS-94-444-3
		X	115/200	3Ø		X				PS-94-444-6	
		X	115/200	3Ø		X	X			PS-94-444-19	

**NOTES:**

1. Requires one PC-P1 type parallel cable (PC Series) for each unit.
2. Requires one PC-P3 type parallel cable (PC Series) for each unit. (Limit 3 units)
3. Portable power supply and distribution system.

