

5000W Digital Pure Sine Wave Inverter

Schaefer's AEP-5000-371 Series of inverters provide 5000 watts of pure sine wave AC power from a DC source. Pure sine wave AC power is the best for powering highly inductive as well as highly capacitive loads. Unlike modified or quasi-sine wave inverters, a pure sine wave offers "clean" power ideal for powering sensitive loads and for improving AC equipment performance. A pure sine output will provide a quality of power identical to, and in some cases better than, utility power. Low EMI levels allow for usage with minimum interference to other equipment such as TV's or sensitive navigational instruments.



Features:

- 23-42VDC input
- Pure sine wave output
- High reliability and high efficiency
- Robust design for mobile applications
- Wide -20°C to +50°C operating temperature
- Digital display shows:
 - Output Voltage
 - Output Current
 - Output Power
 - Input Voltage
 - Temperature
 - Frequency
 - Alarms
- RS232C interface
- Remote control port
- Remote control (optional)
- Temperature controlled cooling fan
- Advanced microprocessor design
- Protection features:
 - Input low voltage
 - Overload
 - Short circuit
 - Reverse polarity
 - Input OVP
 - Over temperature
- Can power all loads including pulsed loads
- Compact design / Low cost
- Simple installation and maintenance
- 100% burn-in tested (safe & reliable)

Applications:

The AEP-5000 Series is suited for worldwide usage in recreational, industrial, residential, shore or generator and other backup power applications. The compact ultra light weight and rugged design features a wide -20°C to +50°C operating temperature making the AEP-5000 ideal for even the most extreme mobile, marine or military environments.

Industrial equipment:

Includes power supplies (switchmode and linear), test equipment, communications equipment, factory automation equipment, field portable instrumentation, remote facility power, metal halide lamps and high pressure sodium lamps.

Computer equipment:

Includes computers, printers, monitors, fax machines, scanners.

Machinery:

Includes circular saws, drills, grinders, sanders, buffers, air compressors.

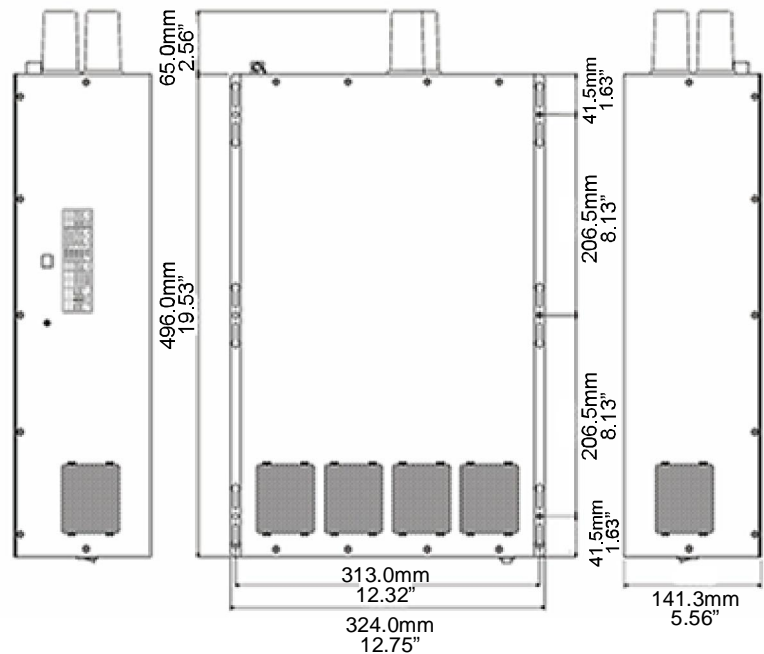
Misc:

Household items, kitchen appliances, home entertainment electronics, etc.

**AEP-5000
Rear Panel View**



Inverter Model	AEP-5000-371	AEP-5000-372
Continuous Output	5000W	
Maximum Power (3 min)	5200W	
Output Power Surge (1-2 sec)	10000W	
AC Output Voltage	100-120VAC (adjustable)	200-240VAC (adjustable)
Frequency	50/60Hz +/-0.05% (Switch Selectable)	
Input Voltage	36VDC	
Input Voltage Range	23 - 42VDC	
Input OVP Alarm	41VDC	
Input OVP Shutdown	42VDC	
Input Undervoltage Alarm	24VDC	
Input Undervoltage Shutdown	23VDC	
No Load Current	1.23A	0.99
Efficiency	86%	91%
Peak Output Current	91A	45A
Output Receptacle	Dual North American AC Socket + Hardwire Connection	
Output Waveform	Pure Sine Wave < 3% THD	
Standby Current Draw	=1.5W Power Saving Mode	
Power Saving Recovery Time	8 Seconds	
Protection	Under/Over Input Voltage, Over Temperature, Reverse Polarity (Fuse), Overload, Short Circuit	
Safety	Meets EN60950-1	
Digital Display	OVP / UVP / OTP / OLP / VAC / AMP / WATTS / VDC / TEMP / Hz	
Interface Control	RS232C (Switch Selectable Baud Rate)	
Remote Control Unit	Optional RF or Wired Remote	
Operating Temp	-20°C to +50°C (-4°F to +122°F)	
Storage Temp	-30°C to +70°C (-22°F to +158°F)	
Cooling	Temperature controlled cooling fan	
Dimensions (LxWxH)	19.53"(L) 12.75"(W) 5.56"(H) (496mm x 324mm x 142mm)	
Weight	39.68 lbs. (18kg)	



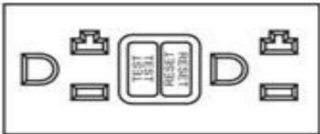
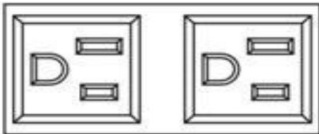
Contact Schaefer for other available products including low power inverters with built-in switch and optional battery charger.

AEP Series

Power Connector Selection Guide

Inverter Series	Description	Available Power Receptacles			
		Terminal Block (Suffix P1)	North American (Suffix P2)	GFCI (Suffix P3)	Universal (Suffix P4)
AEP-700	700W Module	•			•
AEP-1500	1500W Module	•	•	•	•
AEP-3000	3000W Module	•	•	•	•
AEP-5000	5000W Module	•	•	•	•
AEP-1000R	1kVA, 1U Rack	•	•	•	
AEP-A2000R	2kVA, 1U Rack	•	•	•	
AEP-2000R	2kVA Rack	•	•	•	•
AEP-U2000R	2kVA, DC Output, Rack	•	•	•	•
AEP-A3000R	3kVA, 1U Rack	•			
AEP-3000R	3kVA, Rack	•			
AEP-U3000R	3kVA, DC Output, Rack	•			
AEP-5000R	5kVA, Rack	•			

- Notes:
1. Add suffix to model number when ordering to designate chosen receptacle.
 2. Contact your Schaefer sales or technical professional to discuss GFCI receptacles.
 3. Contact your Schaefer sales or technical professional if a North American, GFCI, or universal receptacle is required on higher power units.

North America GFCI - (P3)	North America - (P2)
	
Universal - (P4)	Terminal Block - (P1)
