

ANALYTIC SYSTEMS

Power Conversion Solutions

SEALED 300W PURESINE INVERTER

MODEL **SPS300 SERIES**

Design Features Pure Sine Wave' 120 VAC / 60 Hz fully regulated output, exactly the same as • household AC (or 220 VAC / 50 Hz) Fully sealed to IP67 Ultra-quiet low EMI design .

Extra heavy input filtering to eliminate interference with other equipment sharing the same batteries

- Crystal controlled for precise frequency (± 0.01 Hz) •
- State-of-the-art MosFet technology and unique "Soft-Start" circuitry for reliable operation
- Short Circuit Protection
- **Current Limiting**
- **Overload Protected**
- Illuminated ON-OFF switch for positive indication of proper operation
- Over-temperature protected
- Low voltage warning and shutdown circuitry to protect the batteries
- Transformer type output to protect computers and other sensitive equipment from surges and spikes
- Over voltage and over temperature warning and shutdown circuitry to protect . the inverter
- One AC receptacle for easy connection of up to two devices
- Isolated input for positive or negative ground operation
- Diagnostic LEDs and Audible Alarm

Applications

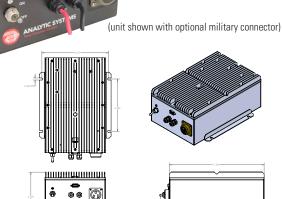
- Marine & other rugged environments
- Military Vehicles
- **Telecommunications Power**
- Mobile Offices (TV and Radio Vans)
- Electric Utilities and Substations •
- Base Station Power (Radio)
- **OEM Applications**
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Emergency Power Backup (UPS)
- Forklift Mountable

- Ultra-Quiet
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

www.analyticsystems.com







Description

Computers are moving into non-traditional work areas at an ever increasing rate as more and more specialty software packages become available. However there is a major problem. Computers require clean, pure AC power to work reliably. If you power one from the same Genset that runs your heavy loads, you could damage it from surges and spikes generated by switching those loads.

If you power it from the same Inverter that runs a microwave and other electrical devices, similar problems occur, plus voltage dropouts from excessive loads on the inverter add to the problem. Also, most inverters produce 'Quasi-Sine Wave' AC, which often doesn't run computers very well. Complaints of noisy displays, cursors that move by themselves and more abound.

The IPS Series of 'True Sine Wave' Inverters are designed specifically for running computers and other electronics in mobile and other off-grid locations.

One standard AC receptacle provides for easy connection. Versions are available to operate from 12V, 24V or 32 Volt battery systems. The SPS300 series of inverters carry a full three-year warranty for commercial version.

Benefits



SEALED 300WMODELPURESINE INVERTERSPS300 SERIES

Nominal lipin 12 24 37 Actual Ndcj 10.5 18 20.30 30.40 Input Amps Inna) 20A × 2 30.4 20A Electrical (Output) 20A × 2 30.4 20A Chopt Nominal Op) 10 222	Electrical (Input)	
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Effectiveal (Output) 110 220 Durput Volts (AC) 115 ± 5 ms 225 ± 5 ms Output Volts (AC) 115 ± 5 ms 225 ± 5 ms Durput Volts (AC) 115 ± 5 ms 225 ± 5 ms Output Volts (AC) 136 ont / 182 peak Durput Frequency (Crystal Controllet) 60.00 ± 0.01 Hz 50.00 ± 0.01 H Output Distortion Output Distortion <5% an 300 Watts into 0.8 power factor load	Input Amps (max)	48 25 17
Dutput Nominel (ap) 110 220 Output Volts (AC) 115 ± 5 ms 228 5 ms Charqing Ampa 250 cont. / 3.33 peak 1.36 cont. / 1.82 peak Output Trype 9 ure Sine Wave Output Trype Pure Sine Wave Output Clims & Load) < <+ 0.5%	Input Fuse (MDA)	30A x 2 30A 20A
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Duput Type Pure Sine Wave Output Distortion < 5% at 300 Watts into ß power factor lead	Charging Amps	2.50 cont. / 3.33 peak 1.36 cont. / 1.82 peak
Dutput Distortion < 5% at 300 Watts into 0.8 power factur load	Output Frequency (Crystal Controlled)	60.00 ± 0.01 Hz 50.00 ± 0.01 H
Regulation (Line & Load) <+/- 0.5%	Output Type	Pure Sine Wave
Duty Cycle Peak 20% for 10 min max Continuous 100% for 24 hours per day Efficiency > 80% @ Maximum Output Ground Fault Current Max 6 mA between Neutral and Ground Environment Specification 25% - 440°C @ maximum output Operating Temp. Range 25% - 440°C @ maximum output Operating Temp. Range 25% - 440°C @ maximum output Operating Temp. Range 0 - 95% Relative Humidity (non-condensing) with optional conformal coating Audible Noise Ø dB @ 3 ft (34.5 dB when fan operating) Typical Service Life > 10 yrs. (87.600 hrs) Isolation 0utput-Case & Input-Couput 1500VDC Input-Case & S00VDC Mechanical Specification 211.5 in / 29.2 cm Width 8.7 in / 22.1 cm Height 4.75 in / 12.1 cm Clearance 1 inch (25 cm) all around Material Marine Grade Aluminium Finish Black Anodize / Powder Epoxy Coat Fastenings All 8-8 Steniess Steel Weight 13.0 lb / 5.9 kg (estimate) Orance cions Dual Decoxo Style Receptacles DR Standard IEC Plugs for 220VAC	Output Distortion	< 5% at 300 Watts into 0.8 power factor load
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Connections Standard IEC Plugs for 220VAC Warranty 3 years	Weight	13.0 lb / 5.9 kg (estimate)
	Connections	
Safety Designed to meet CSA 22.2.107.1 & UL458	Warranty	3 years
,	Safety	Designed to meet CSA 22.2.107.1 & UL458

Note: Specifications are subject to change without notice.



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