

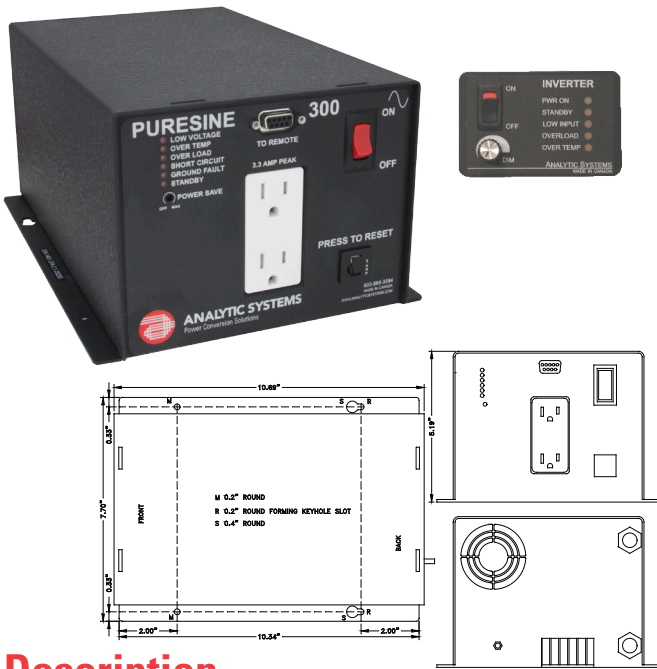


ANALYTIC SYSTEMS

Power Conversion Solutions

DC/AC PURESINE INVERTER

MODEL IPS300



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 IPS300 series of inverters carry a full three-year warranty.

Benefits

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



Design Features

- Pure Sine Wave' 120 VAC / 60 Hz fully regulated output, exactly the same as household AC (or 220 VAC / 50 Hz)
- 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
- Thermostatically controlled fan
- 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)
- Automotive / RV
- Electric Utilities and Substations
- Base Station Power (Radio)
- OEM Applications
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Emergency Power Backup (UPS)
- Musical Recording Equipment
- Forklift Mountable

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

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 800.668.3884 (US/CANADA)

www.analyticsystems.com

DC/AC PURESINE INVERTER

MODEL IPS300

Electrical (Input)

| | | | |
|------------------|---------|-------|-------|
| Nominal (ip) | 12 | 24 | 32 |
| Actual (Vac) | 10.5-16 | 20-30 | 30-40 |
| Input Amps (max) | 48 | 25 | 17 |
| Input Fuse (MDA) | 30A x 2 | 30A | 20A |

Electrical (Output)

| | | |
|---------------------------------------|---|------------------------|
| Output Nominal (op) | 110 | 220 |
| Output Volts (AC) | 115 ± 5 rms | 225 ± 5 rms |
| Charging Amps | 2.50 cont. / 3.33 peak | 1.36 cont. / 1.82 peak |
| Output Frequency (Crystal Controlled) | 60.00 ± 0.01 Hz | 50.00 ± 0.01 H |
| Output Type | Pure Sine Wave | |
| Output Distortion | < 5% at 300 Watts into 0.8 power factor load | |
| Regulation (Line & Load) | < +/- 0.5% | |
| 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

| | |
|-----------------------|---|
| Operating Temp. Range | -25° - +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C to 85°C (Optional -40°C to +55°C extra wide temp. operation avail.) |
| Humidity | 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 | Output-Case & Input-Output 1500VDC Input-Case 500VDC |

Mechanical Specification

| | |
|-------------|---|
| Length | 10.7 in / 27.2 cm |
| Width | 7.7 in / 19.6 cm |
| Height | 5.2 in / 13.2 cm |
| Clearance | 1 inch (2.5 cm) all around |
| Material | Marine Grade Aluminium |
| Finish | Black Anodize / Powder Epoxy Coat |
| Fastenings | All 18-8 Stainless Steel |
| Weight | 12.0 lb / 5.5 kg |
| Connections | Dual Decora Style Receptacles OR Standard IEC Plugs for 220VAC |
| Warranty | 3 years |
| Safety | Certified to CSA 22.2.107.1 & UL458 standards |

Note: Specifications are subject to change without notice.



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