

ANALYTIC SYSTEMS

Power Conversion Solutions

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Benefits

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

Applications

- Telecom Power Plants
- Electric Utilities and Substations
- Marine & other rugged environments
- Base Station Power (Radio & Telecommunications)
- Industrial Controls (OEM Applications)
- Solar / Alternative Power Systems
- Emergency Power Backup (UPS)

AC Power Supplies

PWS610R Series Power Supply

Description

The PWS610R Series of rackmount power supplies provides 12, 24 or 48 Volts DC at 600 Watts of continuous power from a 110 or 220 Volt AC source.

Circuit innovations reduce output ripple to levels previously available only from bulky and inefficient linear power supplies. Reliability features include an input fuse, thermal shutdown, current limiting and output short circuit protection with automatic recovery. An Output Over voltage Crowbar circuit protects any powered devices from excessive voltage in the event of a failure of the unit.

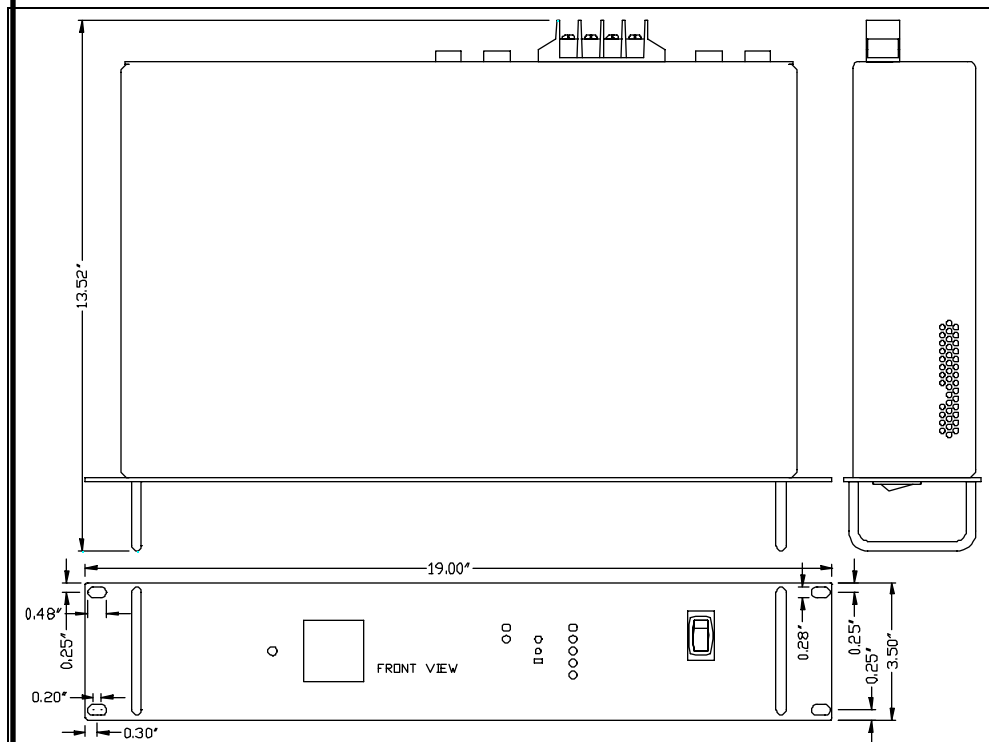
Extra features include adjustable output voltage audible and visual indicators for low input voltage, low output voltage, over temperature, overload and output on. Either 110 or 220 VAC input (Field Convertible) is available. The PWS610R also features a four contact output terminal (two positive and two negative contacts) for easy connection of devices to the supply.

All rackmount units come standard with high quality digital output meters to allow monitoring of output current and output voltage. An optional Battery Back-up is also available.

Features

- Adjustable output voltage
- Extremely rugged and well suited for marine and other demanding environments
- Ultra-quiet low EMI operation
- Audible & visual indicators for output overload, low input voltage, low output voltage & over-temperature
- Over-temperature shutdown
- Current limiting
- Short circuit protection
- Output overvoltage crowbar
- Convection cooled
- Dry contact output fail relay
- Standard Digital Volt/Ammeter
- Optional Parallel output diodes available
- Custom output voltages available (8V to 55V)
- 3 year parts and labour warranty
- Battery Charging (Rectifier) models available

Mechanical Diagram



Specifications

Electrical (Input)

| | | |
|------------------|----------|---------|
| Nominal Vac (ip) | 110 | 220 |
| Actual (Vac) | 105-125 | 210-250 |
| Input Amps (max) | 4.9 | 2.5 |
| Input Fuse (MDA) | 12A | 6A |
| Input Frequency | 45-65 Hz | |
| Noise on Input | < 50 mV | |

Environmental Specifications

| | |
|-----------------------|---|
| Operating Temp. Range | -25° to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C extra wide-temp. operation avail.) |
| Humidity | 0 - 95°C Relative Humidity (non-condensing) with optional conformal coating |
| Audible Noise | NONE Ødb @ 3 ft |
| Typical Service Life | > 10 yrs. (87,600 hrs) |
| Isolation | Input-Case & Input-Output 1500VDC Output-Case 500VDC |

Electrical (Output)

| | | | |
|--------------------------|---|-----------------------|-------------------------|
| Output Nominal (op) | 12 | 24 | 48 |
| Output Volts (DC) | 13.6 ± 0.05 | 27.2 ± 0.05 | 54.4 ± 0.1 |
| Output Amps | 60 cont. / 70 peak | 40 cont. / 45 peak | 20 cont. / 22.5 peak |
| Output Crowbar | 16.0 ± 0.5V | 32.0 ± 1.0V | 63.9 ± 2.0V |
| Output Adjustment (Vdc) | ± 0.5V | | |
| Output Ripple & Noise | < 50 mV | | |
| Transient Response | < 1V for 50% Surge | | |
| Regulation (Line & Load) | < +/- 0.5% | | |
| Duty Cycle | Peak 20% for 10 min maximum Continuous 100% for 24 hours per day | | |
| Efficiency | > 80% @ Maximum Output | | |
| EMC | Built to meet FCC Part 15 | | |

Mechanical Specifications

| | |
|-------------|------------------------------------|
| Depth | 13.5 in |
| Width | 19" |
| Height | 2u (3.5 in.) |
| 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 | Four contact output terminals |
| Warranty | 3 years |
| Safety | cETLus to UL1012 & CSA22.2 Pending |

Available From:



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Quality since 1976

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