

PWS610 Series AC Power Supply



A product of:



Benefits

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

Applications

- Marine & other rugged environments
- Mobile Offices (TV and Radio Vans)
- Automotive / RV
- Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- Industrial Controls (OEM Applications)
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Emergency Power Backup (UPS)
- Security Systems
- Product Burn-in Facilities

AC Power Supplies

PWS610 Series Power Supply

Description

The PWS610 Series of power supplies provides 12, 24 or 48 Volts DC at 600 Watts of continuous power from a 110 or 230 Volt AC source.

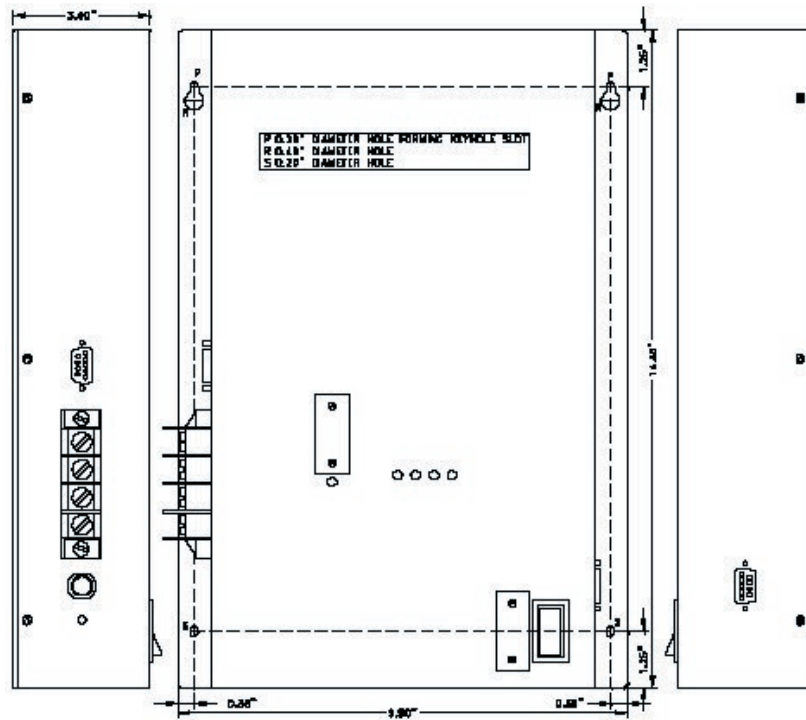
Analytic Systems' power supplies use Switchmode technology with powerful IGBT switching transistors for reliability and efficiency with minimum size. Circuit innovations reduce output ripple to levels previously available only from bulky and inefficient linear power supplies. Reliability features include 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.

The newly updated single-board PWS610 is ultra-quiet and features the latest generation of current mode PWM control. 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 230 VAC input (Field Convertible) is available. The PWS610 also features a four contact output terminal (two positive and two negative contacts) for easy connection of devices to the supply.

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 over-voltage crowbar
- Dry contact output fail relay
- Remote control option
- Digital Volt/Ammeter option
- Custom output voltages available
- Parallel output diodes available
- 19" Rackmount Available
- 3 year parts and labour warranty

Mechanical Diagram



Specifications (Specifications Subject to Change Without Notice)

Electrical (Input)

Nominal Vac (ip)	110	230
Actual (Vac)	105-125	210-250
Input Amps (max)	8.8	4.4
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% 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

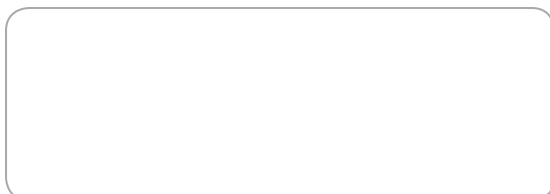
Electrical (Output)

Output Nominal (op)	12	24	48
Output Volts (DC)	13.6 ± 0.05	27.2 ± 0.05	54.4 ± 0.1
Output Amps	40 cont./ 45 peak	20cont. / 25 peak	10 cont./ 12.5 peak
Output Adjustment	± 0.5		
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V	63.9 ± 2.0V
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

Length	14.5 in / 36.8 cm
Width	9.9 in / 25.1 cm
Height	3.0 in / 7.6 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	7.2 lb / 3.3 kg
Connections	Four contact output terminals
Safety	UL458 & CSA22.2.107.1 Pending
Warranty	3 years

Available from:



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The power conversion company

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