

ANALYTIC SYSTEMS

Power Conversion Solutions

#207 12448 82nd Ave.
Surrey, BC V3W 3E9 CANADA

+1 (604) 543-7378 · phone
1-800-668-3884 · toll free
+1 (604) 543-7354 · fax

www.analyticsystems.com



Benefits

- Quiet Operation
- Reliable
- Economical
- Lightweight

Applications

- VHF Radios
- CB Radios
- Sound Equipment
- GPS Receivers
- Plotters
- 12 Volt Lighting Systems
- Automotive Electronics Displays
- Marine Electronics Displays
- Security Systems

AC Power Supplies

PWS120/240 Power Supply


Description

The PWS120 and PWS240 Series of power supplies provide 12 Volts DC at more than 120 Watts or 240 Watts of continuous power from a 110 or 220 Volt AC source.

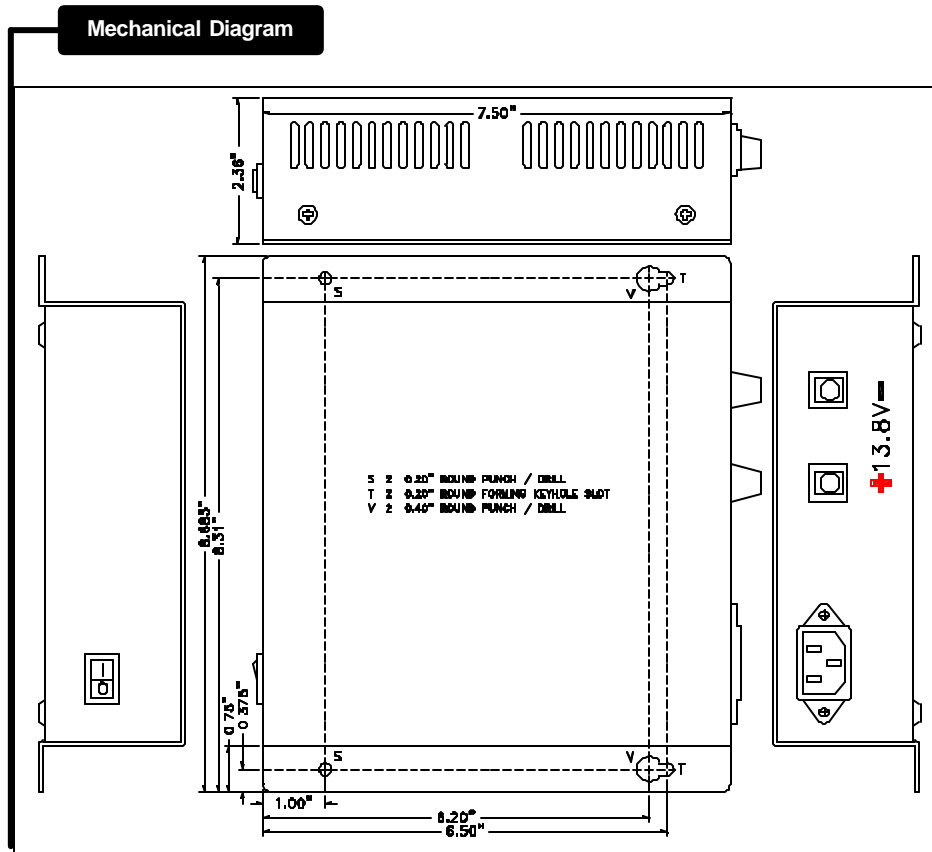
Their new design uses MosFet based Switchmode technology for high reliability, high efficiency and minimum size. Current limiting and safe operating area circuitry protect the transistors.

A crowbar circuit protects any devices powered by the unit from excessive voltage in the unlikely event of a failure.

Features

- Advanced switch-mode technology
- UL listed to both USA & Canadian safety standards

- Reliable power with minimum weight and size
- Input voltage can be set at 120VAC or 240VAC
- Complies with FCC Part 15, Class B standards
- 3 year parts and labour warranty

PWS120/240 Series Power Supplies



Specifications

Electrical (Input)

Nominal Vac (ip)	110	220
Actual (Vac)	100-130	200-260
Input Amps (max)	2.5A	
Input Fuse (AGC)	3A	2A (PWS120)
	6.3A	4A (PWS240)
Current Limit	16A (PWS120)	
	27A (PWS240)	
Input Frequency	45 – 65 Hz	
Noise on Input	< 25 mV	

Environmental Specifications

Temperature Rise	< 40 deg C @ 14 Amps Out
Input Isolation	Input-Case & Input-Output 1500 VDC, Output-Case 500VDC

Electrical (Output)

Output Nominal (op)	12
Output Volts (DC)	13.8 ± 0.1
Output Amps	10 cont. / 14 peak (PWS120) 23 cont. / 25 peak (PWS240)
Output Ripple & Noise	< 10 mV @ 10A out (PWS120) < 15 mV @ 23A out (PWS240)
Transient Response	< 2V for 5A Surge
Regulation (Line & Load)	< +/- 0.5%
Duty Cycle	Peak 20% for 5 min max Continuous 100% for 24 hours per day
Efficiency	> 80% @ 12 Amps Out
EMC	Complies with FCC Part 15, Class B standards

Mechanical Specifications

Length	7.5 in / 19.1 cm
Width	8.7 in / 21.8 cm
Height	2.4 in / 5.6 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	3.0 lb / 1.4 kg (PWS120) 3.5 lb / 1.6 kg (PWS240)
Connections	Two Contact Output Banana Terminals
Warranty	3 years
Safety	UL listed to both USA & Canadian safety standards

Available From:



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Quality since 1976

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