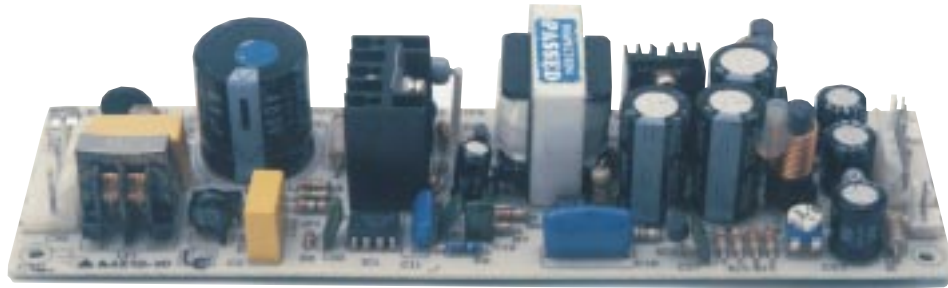




**LIEN ENGINEERING, INC.**

# Universal Open Frame Power Supplies

## **S41 Series 40 and 60 Watt Single and Dual Output Switching Power Supplies**



*Ideal for External Disk Drives!*

### **Features**

- Auto Selecting, Full Range 90 - 260 VAC Input
- Proven High Reliability Design
- High Efficiency
- Fan and Power "On" LED Outputs
- UL, CSA, TUV Approved
- On Board EMI/RFI Filtering - Meets FCC Class B
- Reliable MOS-FET Design

For over 25 years, Lien Engineering, Inc. has been producing innovative Power Conversion and Enclosure Products for large and small computers, computer peripherals, medical, communications, and other industrial requirements.

**LIEN ENGINEERING, INC.**

7940 Arjons Drive • San Diego, California 92126 U.S.A. • Phone: (619) 695-1070 • FAX: (619) 695-6501

# SPECIFICATIONS

## INPUT

INPUT VOLTAGE: 90VAC to 260VAC  
47 - 63 Hz  
No external jumpers or switching required  
INRUSH CURRENT: <30A Peak @ 115VAC  
<15A Peak @ 230VAC  
INPUT CURRENT: 1A Max RMS @ 115VAC  
EFFICIENCY: >75% Typical at full load  
EMI FILTER: Meets FCC Class B

CROSS REGULATION:  $\pm 2\%$  for +5V  
 $\pm 5\%$  for +12V  
NOISE: (mv P-P): 60mV for +5V; 100mV for +12V  
HOLD-UP TIME: 12ms Minimum at full load and 115VAC nominal line  
LINE REGULATION: 0.5% Maximum  
PROTECTION: Foldback @ 105% to 150% of rated output  
Automatic recovery  
5.6VDC  $\pm 10\%$  for +5V  
Continuous short circuit protection

## OUTPUT

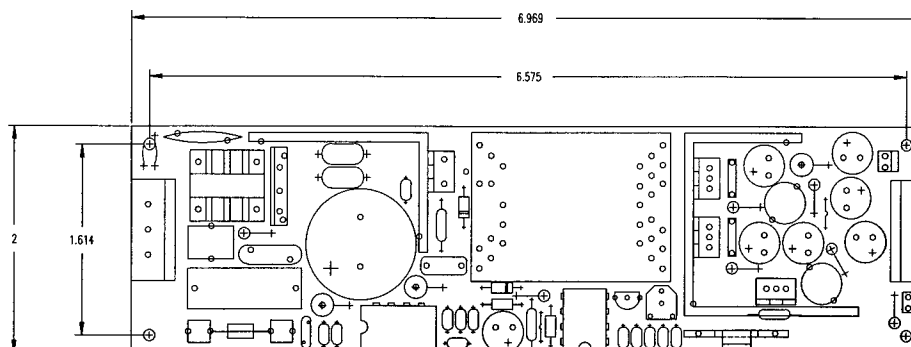
OUTPUT RATING: (Amps)+5VDC @ 0 - 2.0  
+12VDC @ 0 - 2.0/4.0pk  
"Power ON" LED output:  
+5VDC with  
onboard 270 $\Omega$  limit resistor  
Output connection for fan:  
+12VDC @ 00mA with filter  
RIPPLE & NOISE: 1% Peak to peak maximum of all outputs  
ADJUSTMENT RANGE:  $\pm 10\%$  Rated output

## ENVIRONMENTAL

OPERATING TEMPERATURE: 0°C to 55°C  
STORAGE TEMPERATURE: -40°C to 85°C  
THERMAL REGULATION: Forced air required.  
MTBF: >50,000 POH at maximum operating temperature

DIMENSIONS: 2.0" x 7.0" x 1.4"

MODEL	POWER	VOLTAGE	CURRENT
S41P5	40W	5V	8.0A
S41P12	40W	12V	3.0A
S41P15	40W	15V	2.5A
S41P5N5	40W	5V	4.0A
		-5V	4.0A
S41P5P12	40W	5V	2.0A
		12V	2.5A
S41F5	60W	5V	12.0A
S41F12	60W	12V	5.0A
S41F15	60W	15V	4.0A
S41F5N5	60W	5V	10.0A
		-5V	2.0A
S41F5P12	60W	5V	3.0A
		12V	3.5A



(All Dimensions In Inches)