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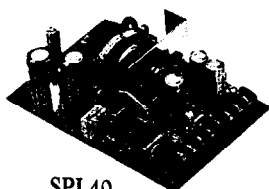
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



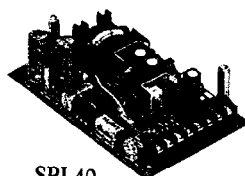
# **SPL/SWA SERIES**

## **PROVEN TECHNOLOGY SWITCHERS**

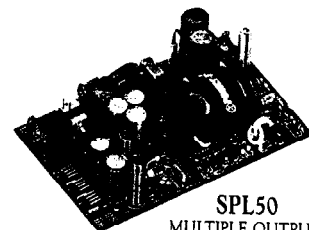
- Over 1,000,000 SPL Series Units Shipped
- Cost Effective Proven Technology
- Worldwide AC Input: 90-132/180-264 VAC
- 2 Year Warranty



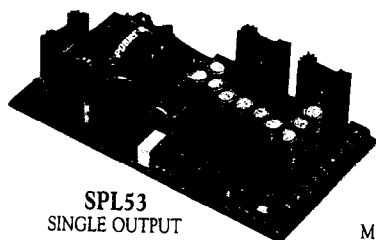
**SPL40**  
SINGLE OUTPUT



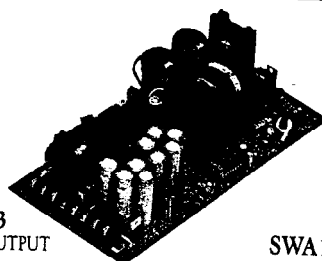
**SPL40**  
MULTIPLE OUTPUT



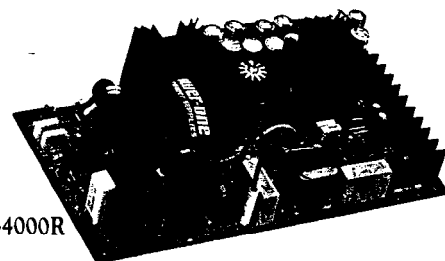
**SPL50**  
MULTIPLE OUTPUT



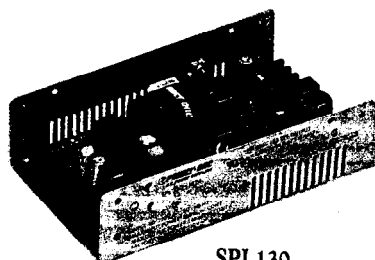
**SPL53**  
SINGLE OUTPUT



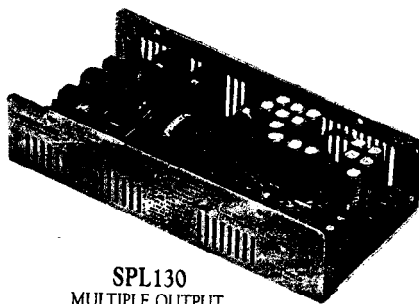
**SPL53**  
MULTIPLE OUTPUT



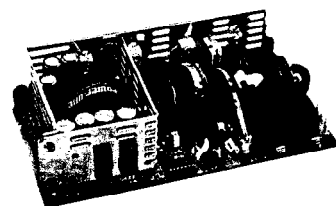
**SWA125-4000R**



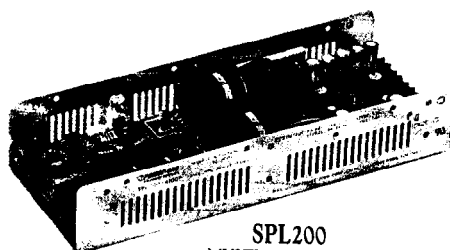
**SPL130**  
SINGLE OUTPUT



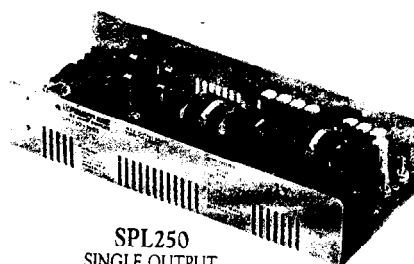
**SPL130**  
MULTIPLE OUTPUT



**SPL175**  
MULTIPLE OUTPUT



**SPL200**  
MULTIPLE OUTPUT



**SPL250**  
SINGLE OUTPUT

# **SPL/SWA SERIES**

## **GENERAL SPECIFICATIONS**

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### **AC Input:**

- Standard dual range: 90-132 VAC or 180-264 VAC, user selectable.
- 47-63 Hz, single phase. Consult factory for 400 Hz operation.

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### **DC Outputs:**

See Voltage/Current Rating Charts

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### **Output Power:**

See Voltage/Current Rating Charts

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### **Brown-Out Protection:**

Regulation is maintained down to 90/180 VAC, at full load, with no compromise in performance.

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### **Hold-Up Time:**

20 msec minimum at full rated load and nominal AC input voltage.  
Hold-up time increases to 40 msec at 50% load.

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### **Power-Fail Warning Signal:**

Single Output Models: Provided on SPL250 models only. TTL compatible signal goes low 10 msec minimum before the output voltage drops 5%, at a 100% load condition.

Multiple Output Models: Provided on models with a "P" suffix. Signal goes low 5 msec minimum before +5V main output drops 5%, at a 100% load condition.

Warning time increases at reduced load levels.

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### **Efficiency:**

Measured at full rated output power and nominal AC input voltage. 70%  $\pm$  5% depending on how the load is distributed among the outputs.

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### **Regulation Characteristics:**

See Voltage/Current Rating Charts for individual model ratings.  
Measurement method (unless otherwise noted):

Line: Measured over a 90-132 VAC or 180-264 VAC line change.

Load: Measured by varying the load current from 60% to either 20% or 100% of full rated.

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### **Cross Regulation:**

Multiple Output Models: Where indicated, cross regulation specifies the maximum voltage change on an auxiliary output when the +5V main output load current is varied from 75% of full rated to either 50% or 100% of full rated. NOTE: The effect of load and cross regulation are generally not cumulative, and may actually act to cancel each other in an operating system environment.

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### **Minimum Load:**

Single Output Models: 5% of full rated output current.

Multiple Output Models: Minimum load required on the +5V main output for full load capability on auxiliary outputs:

SPL40, SPL50:	1A	SPL175:	3A
SPL53:	2A	SPL200:	6A
SPL130:	5A	SWA125:	4A

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### **Remote Sensing:**

Single Output Models: Provided on SPL53, SPL130, and SPL250 series models.

Multiple Output Models: Provided on the +5V main output of SPL130, SPL200.

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### **Output Noise and Ripple:**

0.3% RMS, 1% PK-PK maximum.

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### **Output Overshoot:**

No overshoot on turn-on or turn-off.

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### **Transient Response:**

Recovery Time: 500  $\mu$ sec typical for a 50-100% load change and recovery to within 1% of initial voltage set point.

Maximum Excursion: 3% from initial voltage set point.

Multiple Output Models: Above applies to +5V main output only.

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### **Output Overload Protection:**

Fully protected against output overload and short circuit.

Automatic recovery upon removal of overload condition.

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### **Overvoltage Protection:**

Set at 6.2V  $\pm$  0.6V.

Single Output Models: Provided on all 5V models.

Multiple Output Models: Provided on +5V main output.

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### **Reverse Voltage Protection:**

Inherently protected from damage due to application of reverse polarity voltage across DC output terminals.

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### **Input Protection:**

AC input line fuse provided. Internally located.

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### **Inrush Current:**

Internally limited by thermistor. Cold start, peak current at 230 VAC input. SPL40 through SPL53: 9A maximum.

SPL130 through SPL250: 17A maximum.

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### **Temperature Rating:**

Operating: 0°C to +50°C at full rated output power. Consult factory for operating information between +50°C to +70°C.

Storage: -55°C to +85°C.

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### **Temperature Coefficient:**

$\pm$  0.03%/°C typical,  $\pm$  0.05%/°C maximum over entire operating temperature range of 0°C to +70°C.

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### **Cooling:**

Convection cooling is adequate where non-restricted air flow is available. When operating in a confined area, forced air cooling is recommended.

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### **Vibration:**

Per MIL-STD-810D, Method 514.3, Category 1, Procedure I.

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### **Shock:**

Per MIL-STD-810D, Method 516.3, Procedure III.

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### **OPTIONS**

#### **Overvoltage Protection:**

Available on all single output models.

#### **Input/Output Connectors:**

Quick-disconnect terminals are available for all models except SPL50 and SPL175. Amp or Molex wafer style connectors (.312 centers) are available for SPL40 and SPL53 series models.

#### **Safety Covers:**

Available for SPL130, SPL200, and SPL250.

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*The SPL Series Is Available At Your  
Local Distributor.*

*See The Inside Rear Cover For A Listing  
Of Distributors Closest To You.*

# SPL/SWA SERIES

## GENERAL SPECIFICATIONS AND SINGLE OUTPUT MODELS

### SAFETY AGENCIES

- UL1950 w/D3 or UL 478, for individual models consult factory
- CSA1402C
- TÜV certified to EN60950

### EMI/RFI

- (FCC) 47CFR15J

VOLTAGE	CONVECTION COOLED POWER (WATTS)		MODEL	CURRENT	LINE REGULATION	LOAD REGULATION	CONFIGURATION
	CONTINUOUS	PEAK					
5V	40	N/A	SPL40-1005	8A	± 0.3%	± 1%	BOARD ONLY 5.75" x 3.93" x 1.68 (146.05mm) x (99.822mm) x (42.672mm)
	80	N/A	SPL53-1005**	16A	± 0.3%	± 1%	BOARD ONLY 8.25" x 4.25" x 2.10" (209.55mm) x (107.95mm) x (53.34mm)
	140	N/A	SPL130-1005	26A	± 0.3%	± 1%	U-CHANNEL CHASSIS 8.90" x 5.00" x 2.45" (226.06mm) x (127mm) x (62.23mm)
	250	N/A	SPL250-1005	50A	± 0.3%	± 1%	U-CHANNEL CHASSIS 12.00" x 4.94" x 2.45" (304.8mm) x (125.476mm) x (62.23mm)
12-15V* ADJUSTABLE	40	N/A	SPL40-1012	3.3A/2.7A	± 0.3%	± 1%	BOARD ONLY 5.75" x 3.93" x 1.68 (146.05mm) x (99.822mm) x (42.672mm)
	80	N/A	SPL53-1012**	6.7A/5.3A	± 0.3%	± 1%	BOARD ONLY 8.25" x 4.25" x 2.10" (209.55mm) x (107.95mm) x (53.34mm)
	130	N/A	SPL130-1012	11A/9A	± 0.3%	± 1%	U-CHANNEL CHASSIS 8.90" x 5.00" x 2.45" (226.06mm) x (127mm) x (62.23mm)
	250	N/A	SPL250-1012	21A/17A	± 0.3%	± 1%	U-CHANNEL CHASSIS 12.00" x 4.94" x 2.45" (304.8mm) x (125.476mm) x (62.23mm)
24-28V* ADJUSTABLE	40	N/A	SPL40-1024	1.6A/1.4A	± 0.3%	± 1%	BOARD ONLY 5.75" x 3.93" x 1.68 (146.05mm) x (99.822mm) x (42.672mm)
	80	N/A	SPL53-1024**	3.3A/2.8A	± 0.3%	± 1%	BOARD ONLY 8.25" x 4.25" x 2.10" (209.55mm) x (107.95mm) x (53.34mm)
	140	N/A	SPL130-1024	5.5A/4.5A	± 0.3%	± 1%	U-CHANNEL CHASSIS 8.90" x 5.00" x 2.45" (226.06mm) x (127mm) x (62.23mm)
	250	N/A	SPL250-1024	10A/7A	± 0.3%	± 1%	U-CHANNEL CHASSIS 12.00" x 4.94" x 2.45" (304.8mm) x (125.476mm) x (62.23mm)

\*Models with adjustable voltages have Current Ratings expressed as Current at Lowest Voltage/Current at Highest Voltage.

\*\*See applications note in mechanical drawing.

# SPL/SWA SERIES

## MULTIPLE OUTPUT MODELS

*Mechanical dimensions on pages 60 and 61.*

CONVECTION COOLED WATTAGE/30 CFM		MODEL	VOLTAGE	CURRENT	INITIAL SETTING TOLERANCE	LINE REGULATION	LOAD REGULATION	CROSS REGULATION	CONFIGURATION
CONTINUOUS	PEAK								
40	N/A	SPL40 -4000	+5V	5A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 6.30" x 3.92" x 2.00" (160.02mm) x (99.568mm) x (50.8mm)
			+12V	0.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			-12V	0.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			-5V	0.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
50	60	SPL50 -3200	+5V	6A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 6.30" x 3.92" x 2.00" (160.02mm) x (99.568mm) x (50.8mm)
			+12V	2A/ 4A PK	± 5% NOTE C	± 0.3%	± 3%	± 5%	
			-12V	0.5A	± 10% NOTE C	± 0.3%	± 5%	± 10%	
80	N/A	SPL53** -4000	+5V NOTE G	8A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 8.25" x 4.25" x 2.10" (209.55mm) x (107.95mm) x (129.32mm)
			+12V NOTE G	2.5A/ 5A PK	ADJUSTABLE NOTE D	± 0.1%	± 1%	N/A	
			-12V	0.6A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			-5V	0.6A	± 4% NOTE B	± 0.1%	± 1%	N/A	
80	N/A	SPL53** -4101	+5V	8A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 8.25" x 4.25" x 2.10" (209.55mm) x (107.95mm) x (129.32mm)
			+12V	1.2A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			-12V	0.6A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			+24V	1.5A/ 3A PK	± 5% NOTE C	± 0.5%	± 5%	± 5%	
80	N/A	SPL53** -4102	+5V	8A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 8.25" x 4.25" x 2.10" (209.55mm) x (107.95mm) x (129.32mm)
			+12V	1.2A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			+12V	2.5A/ 5A PK	± 5% NOTE C	± 0.5%	± 5%	± 5%	
			-12V	0.6A	± 4% NOTE B	± 0.1%	± 1%	N/A	
120	135	SPL130 -4000	+5V	22A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	U-CHANNEL CHASSIS 10.50" x 5.00" x 2.45" (266.7mm) x (127mm) x (62.23mm)
			+12V	3A	ADJUSTABLE NOTE D	± 0.1%	± 1%	N/A	
			-12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			-5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
100/125	N/A	SWA125 -4000R	+5V	15A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 9.00" x 4.75" x 2.35" (228.6mm) x (120.65mm) x (59.69mm)
			+12V	4A/ 8A PK	ADJUSTABLE NOTE D	± 0.3%	± 1%	N/A	
			-12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			-5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	

\*See applications note in mechanical drawing.

# SPL/SWA SERIES

## MULTIPLE OUTPUT MODELS

CONVECTION COOLED WATTAGE/30 CFM		MODEL	VOLTAGE	CURRENT	INITIAL SETTING TOLERANCE	LINE REGULATION	LOAD REGULATION	CROSS REGULATION	CONFIGURATION
CONTINUOUS	PEAK								
130	150	SPL130 -4100P	+ 5V	20A NOTE E	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	U-CHANNEL CHASSIS 10.50" x 5.00" x 2.45" (266.7mm) x (127mm) x (62.23mm)
			+ 12V AUX 1	4A/ 6A PK	± 5% NOTE C	± 0.5%	± 5%	± 5%	
			+ 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
130	150	SPL130 -4101P	+ 5V	20A NOTE E	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	U-CHANNEL CHASSIS 10.50" x 5.00" x 2.45" (266.7mm) x (127mm) x (62.23mm)
			+ 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			+ 24V AUX 1	2A/ 4A PK	± 5% NOTE C	± 0.5%	± 5%	± 5%	
130	150	SPL130 -4102P	+ 5V	20A NOTE E	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	U-CHANNEL CHASSIS 10.50" x 5.00" x 2.45" (266.7mm) x (127mm) x (62.23mm)
			+ 12V AUX 1	4A/ 6A PK	± 5% NOTE C	± 0.5%	± 5%	± 5%	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
150/175	N/A	SPL175 -4000R	+ 5V	20A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 8.00" x 4.00" x 2.10" (203.2mm) x (101.6mm) x (53.34mm)
			+ 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
150/175	N/A	SPL175 -4100	+ 5V	20A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 8.00" x 4.00" x 2.10" (203.2mm) x (101.6mm) x (53.34mm)
			+ 12V	5A/ 8A PK NOTE J	± 5% NOTE C	± 0.5%	± 3%	± 5%	
			+ 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
150/175	N/A	SPL175 -4200	+ 5V	20A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 8.00" x 4.00" x 2.10" (203.2mm) x (101.6mm) x (53.34mm)
			+ 24V	3A/ 5A PK NOTE J	± 5% NOTE C	± 0.5%	± 3%	± 5%	
			+ 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	

**NOTES:** A. Voltage level adjustable from 4.75V to OVP trip point. Factory set to ± 1% of nominal.  
B. Fully regulated output, voltage fixed (3 terminal regulator).  
C. Quasi-regulated output.  
D. Fully regulated output, voltage adjustable ± 5% minimum. Factory set to ± 1% of nominal.  
E. The sum of the main + 5V and AUX 1 load currents must not exceed 30A.  
F. The sum of the main + 5V and AUX 1 load currents must not exceed the main + 5V current rating.  
G. Maximum load is 10A or 120W.  
H. Voltage level adjustable from + 5V to + 24V. Factory set to + 12V ± 1%.  
J. Total output power must be limited to 450 watts, if the main + 5V output current is greater than 50A.



# SPL/SWA SERIES

## MULTIPLE OUTPUT MODELS

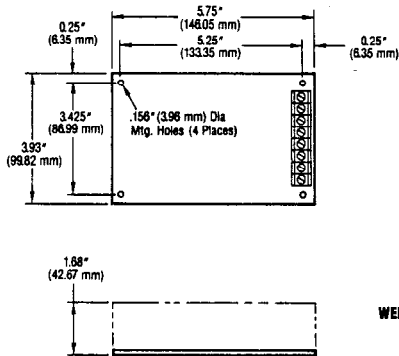
CONVECTION COOLED WATTAGE/30 CFM		MODEL	VOLTAGE	CURRENT	INITIAL SETTING TOLERANCE	LINE REGULATION	LOAD REGULATION	CROSS REGULATION	CONFIGURATION
CONTINUOUS	PEAK								
150/175	N/A	SPL175 -4300P	+ 5V	20A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	BOARD ONLY 8.00" x 4.00" x 2.10" (203.2mm) x (101.6mm) x (53.34mm)
			+ 12V	5A/ 8A PK NOTE J	± 5% NOTE C	± 0.5%	± 3%	± 5%	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
200	250	SPL200 -4000P	+ 5V	35A NOTE F	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	FULLY REGULATED OUTPUTS U-CHANNEL CHASSIS 13.00" x 5.00" x 2.45" (330.2mm) x (127mm) x (62.23mm)
			+ 12V AUX 1	4A/ 7A PK	ADJUSTABLE NOTE D	± 0.1%	± 1%	N/A	
			- 12V	1.5A	ADJUSTABLE NOTE D	± 0.1%	± 1%	N/A	
			- 5V	1.5A	± 4% NOTE D	± 0.1%	± 1%	N/A	
200	250	SPL200 -4100P	+ 5V	35A NOTE F	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	U-CHANNEL CHASSIS 13.00" x 5.00" x 2.45" (330.2mm) x (127mm) x (62.23mm)
			+ 12V AUX 1	4A/ 7A PK	± 5% NOTE C	± 0.5%	± 3%	± 3%	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
200	250	SPL200 -5100P	+ 5V	35A NOTE F	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	U-CHANNEL CHASSIS 13.00" x 5.00" x 2.45" (330.2mm) x (127mm) x (62.23mm)
			+ 12V AUX 1	4A/ 8A PK	± 5% NOTE C	± 0.5%	± 5%	± 3%	
			+ 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
200	250	SPL200 -5200P	+ 5V	35A NOTE F	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	U-CHANNEL CHASSIS 13.00" x 5.00" x 2.45" (330.2mm) x (127mm) x (62.23mm)
			+ 12V AUX 1	4A/ 8A PK	± 5% NOTE C	± 0.5%	± 5%	± 3%	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			+ 24V	4A/ 6A PK	± 5% NOTE C	± 0.5%	± 5%	± 5%	

- NOTES:** A. Voltage level adjustable from 4.75V to OVP trip point. Factory set to ± 1% of nominal.  
B. Fully regulated output, voltage fixed (3 terminal regulator).  
C. Quasi-regulated output.  
D. Fully regulated output, voltage adjustable ± 5% minimum. Factory set to ± 1% of nominal.  
E. The sum of the main + 5V and AUX 1 load currents must not exceed 30A.  
F. The sum of the main + 5V and AUX 1 load currents must not exceed the main + 5V current rating.  
G. Maximum load is 10A or 120W.  
H. Voltage level adjustable from + 5V to + 24V. Factory set to + 12V ± 1%.  
J. Total output power must be limited to 450 watts, if the main + 5V output current is greater than 50A.

# SPL/SWA SERIES MECHANICAL DIMENSIONS

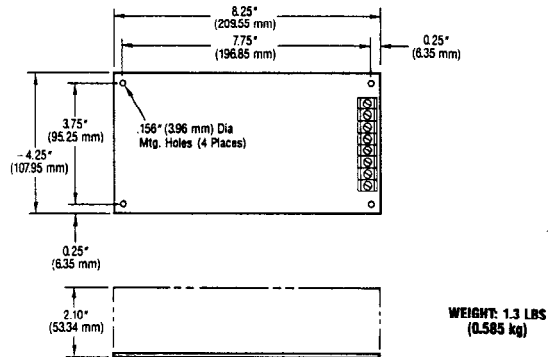
## SPL40 SINGLE OUTPUT

**OVERALL SIZE**  
5.75" x 3.93" x 1.88"  
(146.05 mm) x (99.82 mm) x (42.67 mm)



## SPL53 SINGLE/MULTIPLE OUTPUT

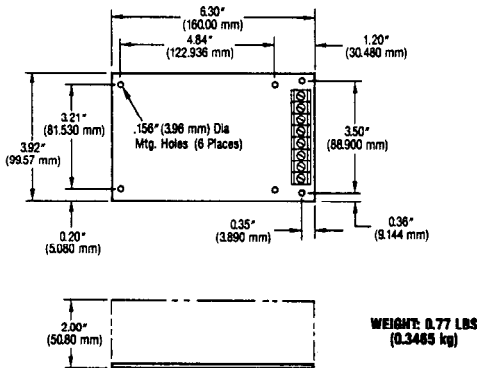
**OVERALL SIZE**  
8.25" x 4.25" x 2.16"  
(209.55 mm) x (107.95 mm) x (53.34 mm)



THE SPL53 MAY REQUIRE A RUBBER SNUBBER MOUNTED UNDER IT IN SOME APPLICATIONS TO PREVENT BOARD DEFLECTION. CONSULT FACTORY.

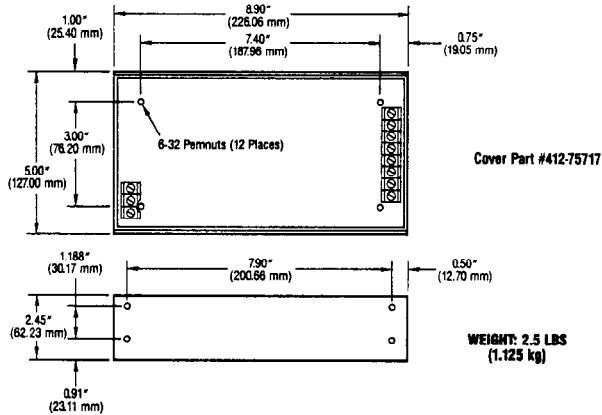
## SPL40 MULTIPLE OUTPUT

**OVERALL SIZE**  
6.30" x 3.92" x 2.00"  
(160.00 mm) x (99.57 mm) x (50.80 mm)



## SPL130 SINGLE OUTPUT

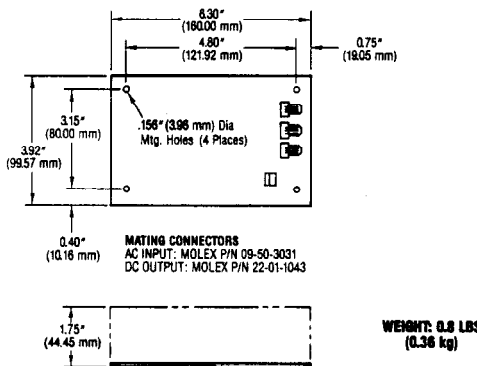
**OVERALL SIZE**  
8.90" x 5.00" x 2.45"  
(226.06 mm) x (127.00 mm) x (62.23 mm)



Cover Part #412-75717

## SPL50 MULTIPLE OUTPUT

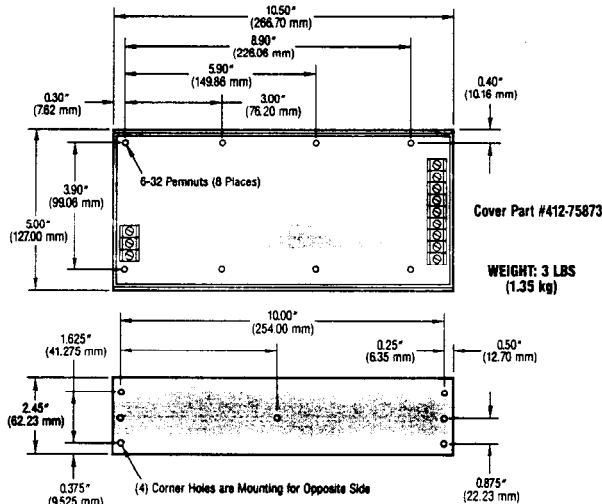
**OVERALL SIZE**  
6.30" x 3.92" x 1.75"  
(160.00 mm) x (99.57 mm) x (44.45 mm)



**MATING CONNECTORS**  
AC INPUT: MOLEX P/N 09-50-3031  
DC OUTPUT: MOLEX P/N 22-01-1043

## SPL130 MULTIPLE OUTPUT

**OVERALL SIZE**  
10.50" x 5.00" x 2.45"  
(266.70 mm) x (127.00 mm) x (62.23 mm)



Cover Part #412-75873

(4) Corner Holes are Mounting for Opposite Side

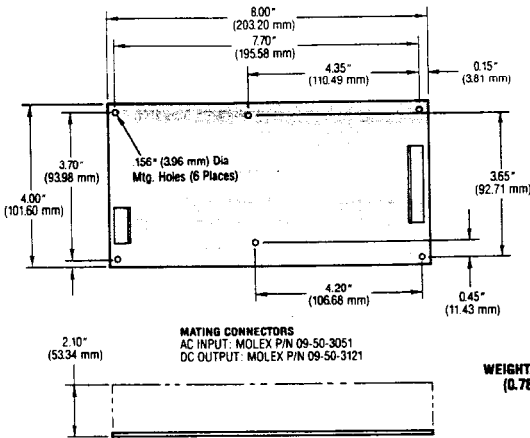


# SPL/SWA SERIES

## MECHANICAL DIMENSIONS

### SPL175 MULTIPLE OUTPUT

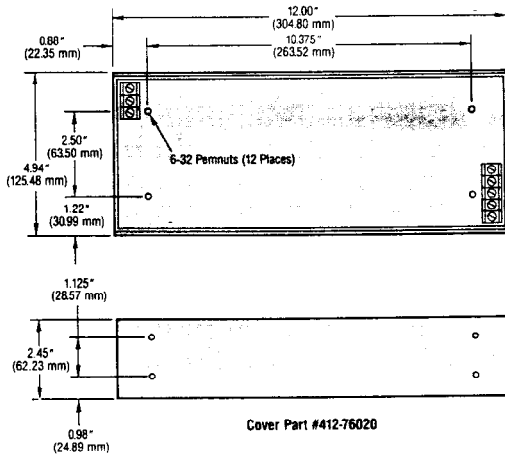
**OVERALL SIZE**  
8.00" x 4.00" x 2.10"  
(203.20 mm) x (101.60 mm) x (53.34 mm)



**WEIGHT: 1.75 LBS**  
(0.7875 kg)

### SPL250 SINGLE OUTPUT

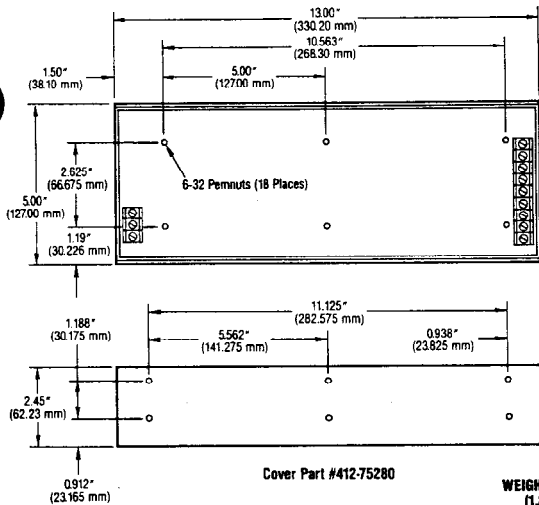
**OVERALL SIZE**  
12.00" x 4.94" x 2.45"  
(304.80 mm) x (125.48 mm) x (62.23 mm)



**WEIGHT: 3.5 LBS**  
(1.575 kg)

### SPL200 MULTIPLE OUTPUT

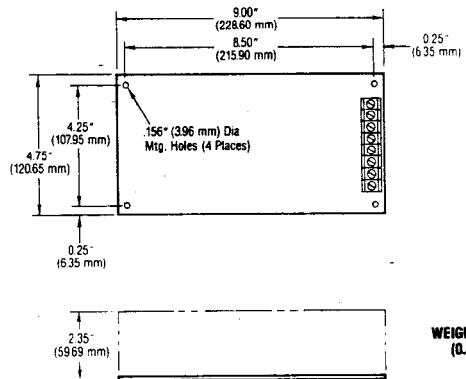
**OVERALL SIZE**  
13.00" x 5.00" x 2.45"  
(330.20 mm) x (127.00 mm) x (62.23 mm)



**WEIGHT: 4 LBS**  
(1.8 kg)

### SWA125

**OVERALL SIZE**  
9.00" x 4.75" x 2.35"  
(228.60 mm) x (120.65 mm) x (59.69 mm)



**WEIGHT: 1.9 LBS**  
(0.855 kg)

The SPL Series Is Available At Your Local Distributor.

See The Inside Rear Cover For A Listing Of Distributors Closest To You.

Your Local Value-Added Distributor Can Perform Authorized Modifications.