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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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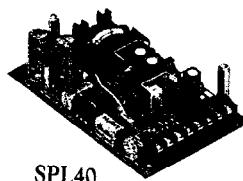
SPL/SWA SERIES

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



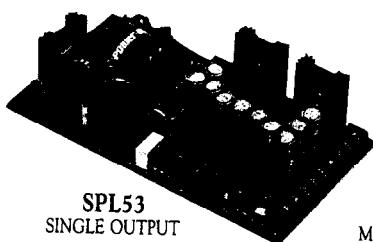
SPL40
SINGLE OUTPUT



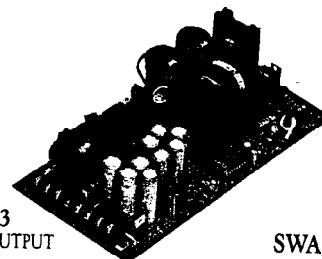
SPL40
MULTIPLE OUTPUT



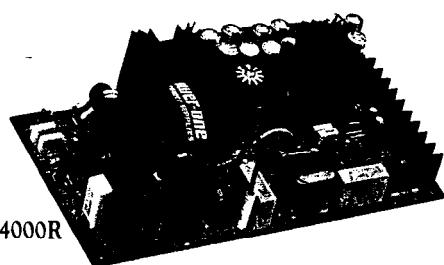
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MULTIPLE OUTPUT



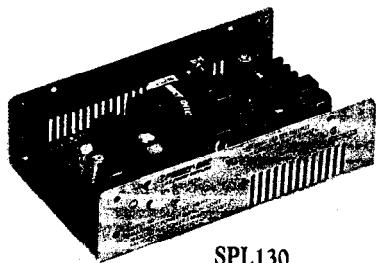
SPL53
SINGLE OUTPUT



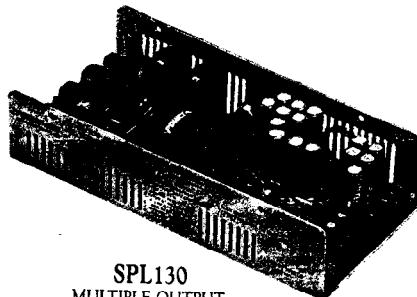
SPL53
MULTIPLE OUTPUT



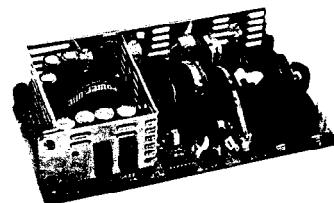
SWA125-4000R



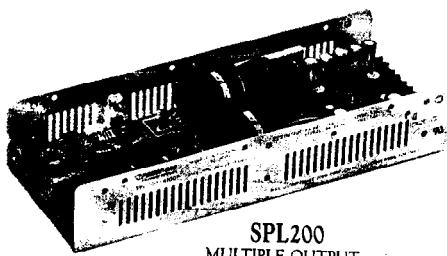
SPL130
SINGLE OUTPUT



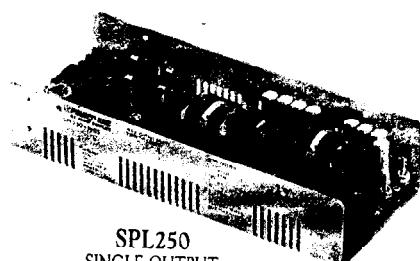
SPL130
MULTIPLE OUTPUT



SPL175
MULTIPLE OUTPUT



SPL200
MULTIPLE OUTPUT



SPL250
SINGLE OUTPUT

SPL/SWA SERIES

GENERAL SPECIFICATIONS

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.

DC Outputs:

See Voltage/Current Rating Charts

Output Power:

See Voltage/Current Rating Charts

Brown-Out Protection:

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

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.

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.

Efficiency:

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

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.

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.

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

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.

Output Noise and Ripple:

0.3% RMS, 1% PK-PK maximum.

Output Overshoot:

No overshoot on turn-on or turn-off.

Transient Response:

Recovery Time: 500 μ 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.

Output Overload Protection:

Fully protected against output overload and short circuit. Automatic recovery upon removal of overload condition.

Overvoltage Protection:

Set at 6.2V ± 0.6V.

Single Output Models: Provided on all 5V models.

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

Reverse Voltage Protection:

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

Input Protection:

AC input line fuse provided. Internally located.

Inrush Current:

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

SPL130 through SPL250: 17A maximum.

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.

Temperature Coefficient:

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

Cooling:

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

Vibration:

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

Shock:

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

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.

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) 47CFR15]

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	
			+ 12V	0.5A	± 4% NOTE B	± 0.1%	± 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	
			- 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 (1290.32mm)
			+ 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 (1290.32mm)
			+ 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 (1290.32mm)
			+ 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%	
			+ 5V	20A NOTE E	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	
130	150	SPL130 -4102P	+ 12V AUX 1	4A/ 6A PK	± 5% NOTE C	± 0.5%	± 5%	± 5%	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	
			- 5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			+ 5V	20A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	
150/175	N/A	SPL175 -4000R	+ 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	BOARD ONLY 8.00" x 4.00" x 2.10" (203.2mm) x (101.6mm) x (53.34mm)
			- 5V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			+ 5V	20A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	
150/175	N/A	SPL175 -4100	+ 12V 8A PK NOTE J	5A/ 8A PK	± 5% NOTE C	± 0.5%	± 3%	± 5%	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	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			+ 5V	20A	ADJUSTABLE NOTE A	± 0.3%	± 1%	N/A	
150/175	N/A	SPL175 -4200	+ 24V 5A PK NOTE J	3A/ 5A PK	± 5% NOTE C	± 0.5%	± 3%	± 5%	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	
			- 12V	1.5A	± 4% NOTE B	± 0.1%	± 1%	N/A	
			+ 5V	20A	ADJUSTABLE NOTE A	± 0.3%	± 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 -4300	+ 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	4A/ AUX 1 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	4A/ AUX 1 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	4A/ AUX 1 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	
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	4A/ AUX 1 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%.

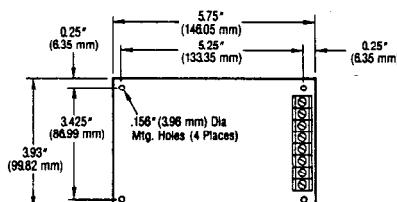
J. Total output power must be limited to 450 watts, if the main + 5V output current is greater than 50A.

SPL/SWA SERIES

MECHANICAL DIMENSIONS

SPL40 SINGLE OUTPUT

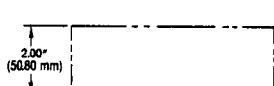
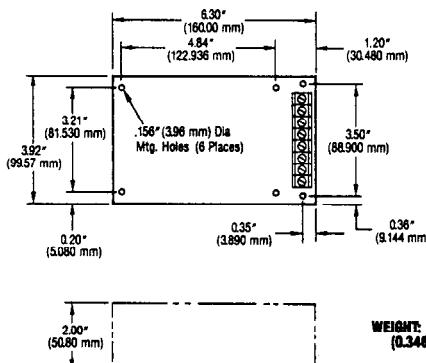
OVERALL SIZE
5.75" x 3.93" x 1.68"
(146.05 mm) x (99.82 mm) x (42.87 mm)



WEIGHT: 0.6 LBS
(0.27 kg)

SPL40 MULTIPLE OUTPUT

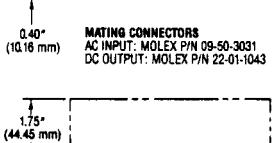
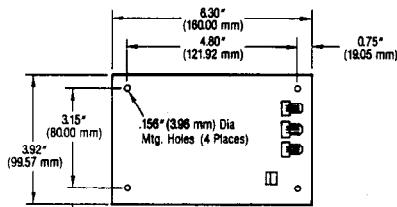
OVERALL SIZE
8.30" x 3.92" x 2.00"
(180.00 mm) x (99.57 mm) x (50.80 mm)



WEIGHT: 0.77 LBS
(0.3485 kg)

SPL50 MULTIPLE OUTPUT

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

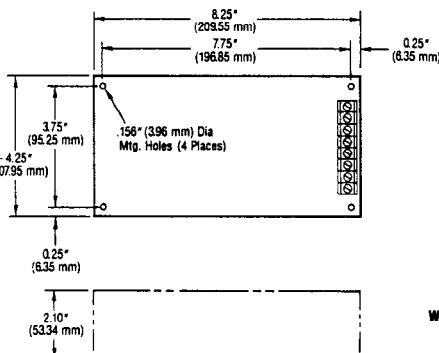


MATING CONNECTORS
AC INPUT: MOLEX P/N 09-50-3031
DC OUTPUT: MOLEX P/N 22-01-1043

WEIGHT: 0.8 LBS
(0.36 kg)

SPL53 SINGLE/MULTIPLE OUTPUT

OVERALL SIZE
8.25" x 4.25" x 2.10"
(209.55 mm) x (107.95 mm) x (53.34 mm)

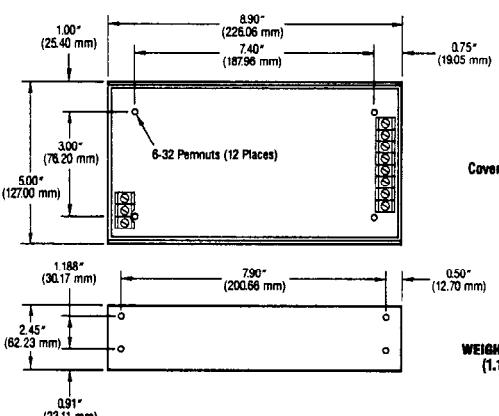


WEIGHT: 1.3 LBS
(0.585 kg)

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

SPL130 SINGLE OUTPUT

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

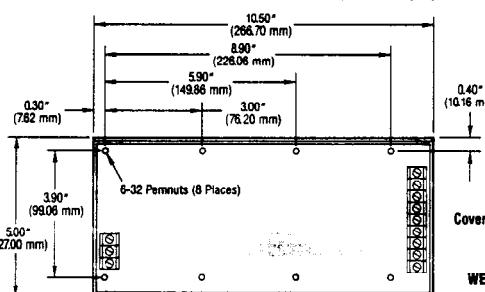


Cover Part #412-75717

WEIGHT: 2.5 LBS
(1.125 kg)

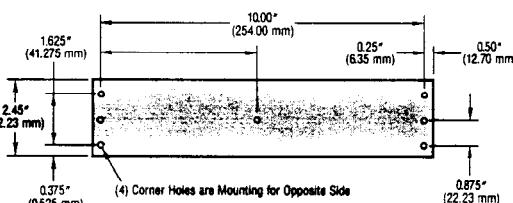
SPL130 MULTIPLE OUTPUT

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



Cover Part #412-75873

WEIGHT: 3 LBS
(1.35 kg)



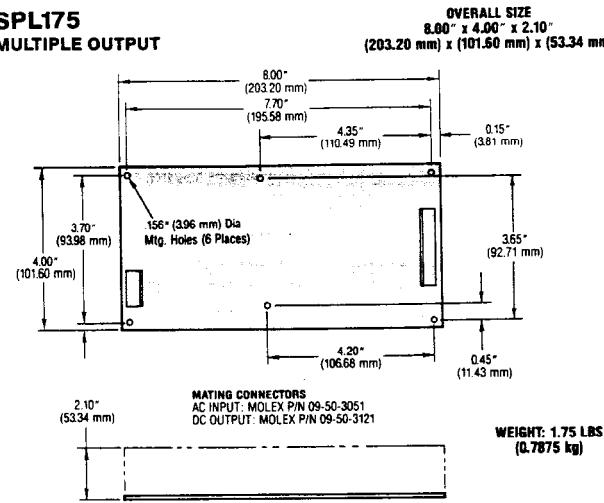
(4) Corner Holes are Mounting for Opposite Side

0.875" (22.23 mm)

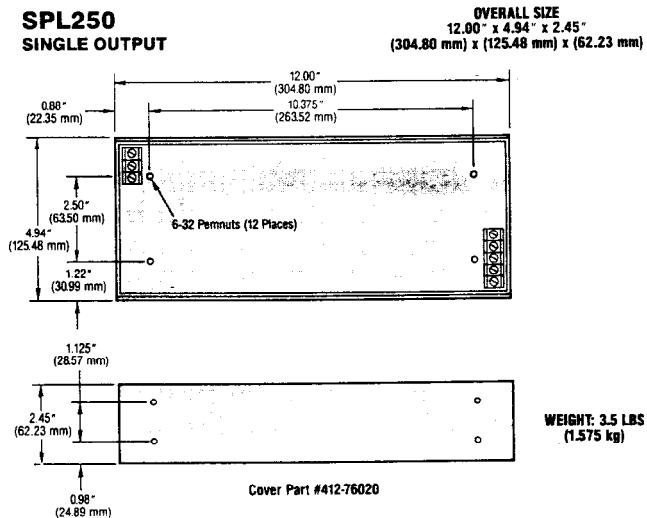
SPL/SWA SERIES

MECHANICAL DIMENSIONS

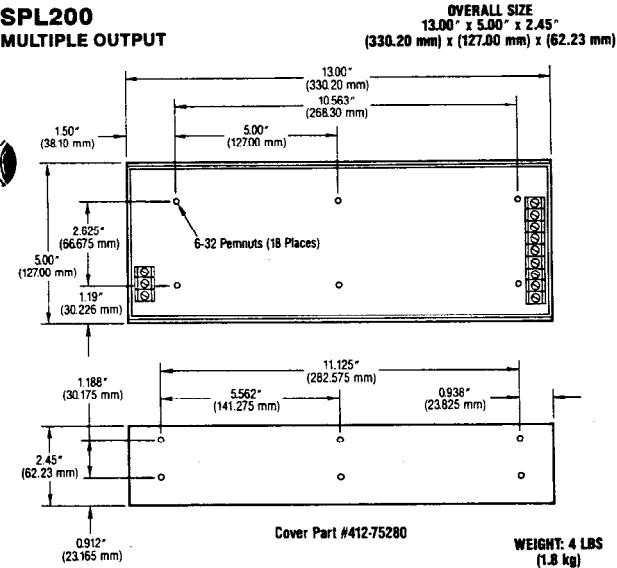
SPL175 MULTIPLE OUTPUT



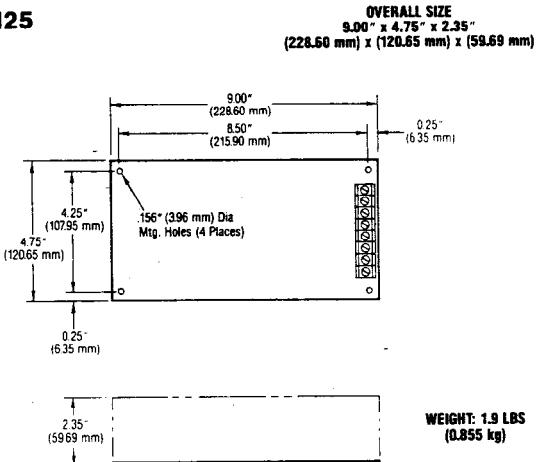
SPL250 SINGLE OUTPUT



SPL200 MULTIPLE OUTPUT



SWA125



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.