

# SPXL-750 SERIES 750 WATTS

ONE TO FOUR OUTPUTS /POWER FACTOR CORRECTED  
UNIVERSAL INPUT 90-264 VAC

## LOW PROFILE -2.5 INCH HEIGHT



HIGH RELIABILITY GREATER THAN 120,000 HRS. MTBF



### FEATURES:

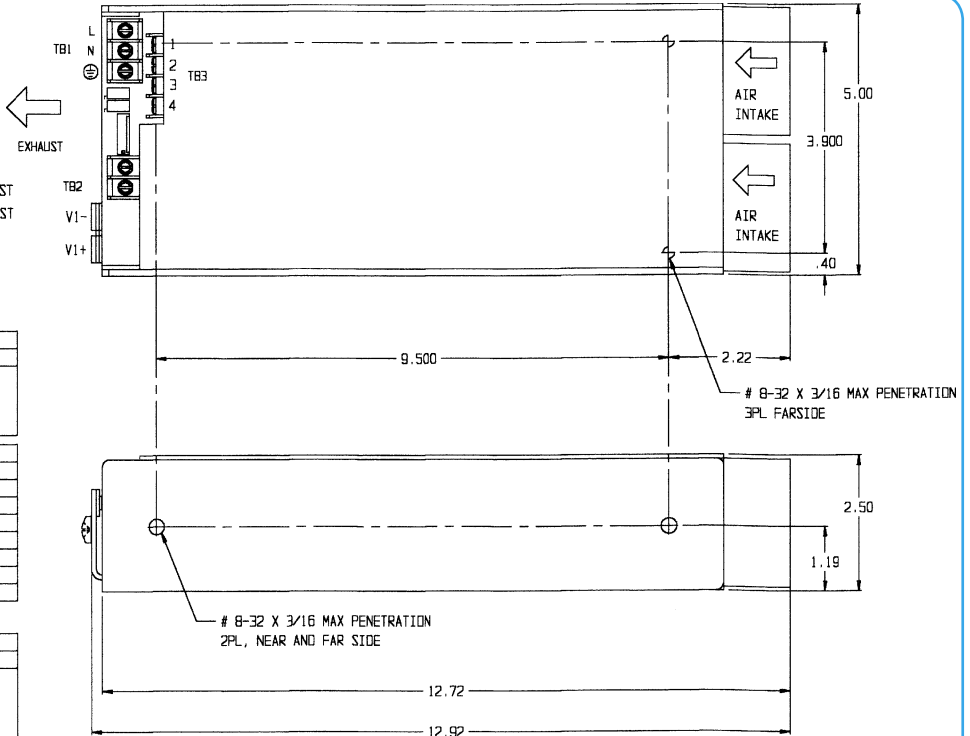
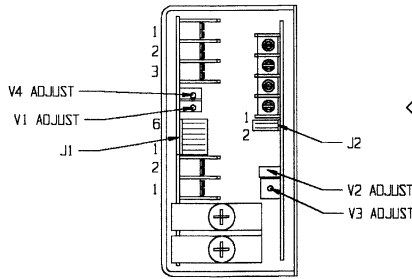
- 100 KHz Operation
- Sizes 5"x2.5"x12.92"
- 80% Efficiency Typical
- Meets EN55022 Level A / FCC Class A
- Active Current Sharing
- 0.99 PFC Typical
- All Outputs Adjustable
- All Outputs Monotonically Increasing
- Remote Sense On outputs 1 and 2

TYPICAL MODELS AND THEIR OUTPUT RATINGS:				
MODEL NO.	V1	V2	V3	V4
SPXL-750Q-P	5 @ 120A	12 @ 12/20Apk	-12 @ 10A	3.3 @ 10A
SPXL-750Q-P	5 @ 120A	3.3 @ 12/20Apk	-12 @ 10A	5.2 @ 5A
SPXL-750Q-P	5 @ 120A	15 @ 12/20Apk	-5.2 @ 10A	24 @ 5A
SPXL-750Q-P	5 @ 120A	24 @ 10A	3.3 @ 10A	12 @ 5A

or configure your own output requirements from the chart below:

	OUTPUT VOLTAGE (VDC)	OUTPUT AMPERS (MAX)	OUTPUT POWER (WATTS)
<b>V1</b>	<b>2 to 48</b>	<b>120</b>	<b>750</b>
<b>V2</b>	<b>2 to 48</b>	<b>20</b>	<b>240</b>
<b>V3</b>	<b>2 to 48</b>	<b>10</b>	<b>120</b>
<b>V4</b>	<b>2 to 48</b>	<b>10</b>	<b>120</b>

# SPXL-750 SERIES 750 WATT COMPACT SIZE



AC INPUT (90-264 VAC CONTINUOUS RANGE)			
FUNCTION	115 VAC	230 VAC	CONNECTOR
TB1-(L)	LINE	LINE 1	BARRIER STRIP
TB1-(N)	NEUTRAL	LINE 2	#6-32 SCREWS
TB1-(GND)	SAFETY GROUND	SAFETY GROUND	3/8" CENTERS

DC OUTPUTS			
FUNCTION	OUTPUT	LOCATION	CONNECTOR
+V1	+5V/120A	MAIN OUTPUT	BUS BARS #1/4-20 SCREWS
+V2	+12V/12A 20A PK	TB3-1	#6-32 SCREW
-V2	+12V RTN	TB3-2	#6-32 SCREW
+V3	-12V RTN	TB3-3	#6-32 SCREW
-V3	-12V/10A	TB3-4	#6-32 SCREW
+V4	+5.2V/5A	TB2-1	#6-32 SCREW
-V4	-5.2V/5A	TB2-2	#6-32 SCREW

STATUS AND CONTROL			
FUNCTION	LOCATION	NOTES	CONNECTOR
REMOTE SENSE #1	J1-5	OUTPUT #1 SENSE	MOLEX
	J1-4	OUTPUT #1 SENSE RTN	#22-04-1061
DC POWER GOOD	J1-3	REFERENCE TO COMMON	#22-01-1064
	J1-6		
	J1-2		
CURRENT SHARE	J1-1		
REMOTE SENSE #2	J2-1	OUTPUT #2 SENSE	MOLEX
	J2-2	OUTPUT #2 SENSE RTN	#22-04-1021
			MATES WITH #22-01-1024

- NOTES:
- INHIBIT IS OPEN TO RUN. CONTACT CLOSURE TO THE NEGATIVE SENSE LINE OR A TTL LEVEL \*0\* TURNS OFF DC OUTPUTS.
  - AC POWER FAIL PROVIDES TTL \*0\* 5msec BEFORE OUTPUTS GO OUT OF REGULATION BAND UPON LOSS OF AC.
  - DC POWER GOOD PROVIDES A TTL \*1\* WHEN THE 5V OUTPUT IS ABOVE 4.5V.
  - 90-264VAC INPUT POWER FACTOR CORRECTED.

\*IN PDF FORMAT, PRINT OR ZOOM TO SEE DRAWING

<b>Nominal Input Voltage</b>	115-240 VAC.	<b>Overtemperature Protection</b>	Unit shuts down if overheated. Automatic recovery.
<b>Frequency</b>	47-63 Hz 400Hz. available.	<b>Cooling</b>	Integral fans provide a min. 50 CFM of air.
<b>Operational Input Voltage Range</b>	115-240 VAC 90-264 VAC	<b>Input/Output Isolation</b>	4242 VDC, SELV construction.
<b>Inrush Current</b>	Less than 50 A for 5 msec. @ 115 VAC, or 80 amperes @ 230 VAC.	<b>Remote Sense (V1&amp; V2 output)</b>	Up to 0.5 volts total in load.
<b>Fusing</b>	15Ampere, 250 VAC, Internal ceramic body fuse.	<b>Remote On/Off</b>	Standard-Open to operate, closure to v1 return ,shuts unit down.
<b>Efficiency</b>	80% typical.	<b>Power Good</b>	Provides a logic "1", TTL, for output V1 above 4.75Volts.
<b>Turn on time</b>	Less than 500 msec.	<b>Power Fail</b>	Provides a logic "0", TTL ,5msec before loss of output.
<b>Load Regulation</b>	1% for 0% to 100% load changes, V2-V4outputs. 10% min. load required on V1 for max load reg. on outputs V2 to V4.	<b>Operating Temperature</b>	-20°C to 50°C, Full Output 50°C to 75°C derate 2% per °C
<b>Line Regulation</b>	± 0.5% over operating line range, all outputs.	<b>Stability</b>	All outputs 0.5% for 8 hrs. after 1 hour warm-up.
<b>Ripple &amp; Noise</b>	1% ripple, 1% noise or 150MV which ever is greater. 20MHz bandwidth.	<b>Humidity</b>	Up to 95% non-condensing.
<b>Transient Response</b>	Output maximum excursion of ± 5% for 25% load step. Recovery less than 500 µsec.	<b>EMI</b>	Meets FCC Class A and EN55022 Level A
<b>Short Circuit and Overload Protection</b>	All outputs are protected from short circuit and overload. Automatic recovery.	<b>Size</b>	5.0"x2.5"x12.92"
<b>Overshoot</b>	No turn-on or turn-off overshoot.	<b>Weight</b>	7 lbs.
<b>Overtovoltage Protection</b>	V1 voltage clamp factory set at 20% to 30% above output voltage. V2, V3, V4 failsafe design.		

SERIES BREAKDOWN: **SPXL-750X1-P**  
where X1= S for Single output, D for Dual output, T for Triple output or Q for Quad output