

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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SPX-500-S/U SERIES

500 WATT (-S) SELECTABLE OR (-U) UNIVERSAL INPUT
ONE TO FOUR OUTPUTS

SWITCHING POWER, INC.
Regulated D.C. Power



HIGH RELIABILITY GREATER THAN 120,000 HRS. MTBF

TYPICAL MODELS AND THEIR OUTPUT RATINGS:

MODEL NO.	V1	V2	V3	V4
SPX-500T-SF	5/70A	12@10/16Apk	-12/6A	
SPX-500Q-UF	5/80A	15@5/10Apk	-5.2/6A	12/2A
SPX-500Q-UF	5/80A	12@10/16Apk	-12/10A	5.2/2A
SPX-500Q-SF	5/70A	24@5/10Apk	-12/10A	15/2A

or configure your own output requirements from the chart below:

FEATURES:

100 KHz Operation
Sizes 5" x 2.6" x 11.5"
75% Efficiency Typical
Meets EN55022 Level A / FCC Class A

	OUTPUT VOLTAGE (VDC)	OUTPUT AMPERS (MAX)	OUTPUT POWER (WATTS)
V1	**2 to 48**	**80**	**500**
V2	**2 to 48**	**12**	**180**
V3	**2 to 48**	**10**	**120**
V4	**5 to 48**	**2**	**50**

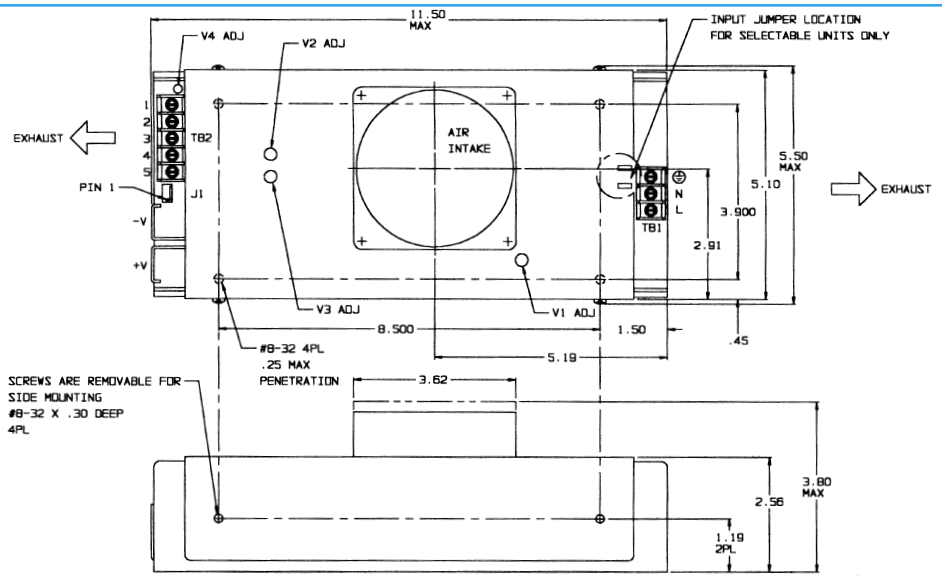
SWITCHING POWER, INC.
Regulated D.C. Power

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VISIT US ON THE WEB:
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SPX-500 SERIES
500 WATT COMPACT SIZE



AC INPUT			
FUNCTION	115 VAC	230 VAC	CONNECTORS
INPUT SELECT ONLY	SHORT	OPEN	.250 FASTONS
TB1-(L)	LINE	LINE 1	BARRIER STRIP
TB1-(N)	NEUTRAL	LINE 2	#6-32 SCREWS
TB1-(GND)	SAFETY GROUND	SAFETY GROUND	

DC OUTPUTS		
FUNCTION	LOCATION	CONNECTOR
V1	MAIN OUTPUT	BUS BARS #1/4-20 SCREWS
+V2	TB2-3	#6-32 SCREWS
RTN V2/V3	TB2-4	#6-32 SCREWS
-V3	TB2-5	#6-32 SCREWS
+V4	TB2-1	#6-32 SCREWS
-V4	TB2-2	#6-32 SCREWS

STATUS AND CONTROL			
FUNCTION	LOCATION	NOTES	CONNECTOR
REMOTE SENSE	J1-1(+S)	OUTPUT #1 SENSE	AMP MTA TYPE
	J1-2(-S)	OUTPUT #1 SENSE RTN	#640456-4 PIN
AC POWER FAIL	J1-3(PF)	REFERENCE TO J1-2	HEADER (LOCKING)
DC POWER GOOD			
INHIBIT	J1-4(IH)	SHORT TO J1-2	

*IN PDF FORMAT, PRINT OR ZOOM TO SEE DRAWING

Nominal Input Voltage	115-240 VAC.
Frequency	47-63 Hz 400Hz. available.
Operational Input Voltage Range	115/230 VAC 90-264 VAC
Inrush Current	Less than 50 A for 5 msec. @ 115 VAC, or 80 amperes @ 230 VAC.
Ride Thru	Outputs hold up for 20 msec after loss of AC.
Fusing	12Ampere, 250 VAC, Internal ceramic body fuse.
Efficiency	75% typical.
Turn on time	Less than 500 msec.
Load Regulation	1% for 10% to 100% load changes, all outputs. 10% min. load required on V1 for max load reg. on outputs V2 to V4.
Line Regulation	± 0.5% over operating line range, all outputs.
Ripple & Noise	1% ripple, 1% noise or 100MV which ever is greater. 20MHz bandwidth.
Transient Response	Output maximum excursion of ± 5% for 25% load step. Recovery less than 500 µsec.
Short Circuit and Overload Protection	All outputs are protected from short circuit and overload. Automatic recovery.
Overshoot	No turn-on or turn-off overshoot.
Overvoltage Protection	V1 voltage clamp factory set at 20% to 30% above output voltage. V2, V3, V4 failsafe design.
Overtemperature Protection	Unit shuts down if overheated. Automatic recovery.
Cooling	-F, -F1 equipped with fan or user provides min. 30 CFM.
Input/Output Isolation	4242 VDC, SELV construction.
Remote Sense V1 Output	Up to 0.5 volts total in load.
Remote On/Off	Standard - Open to run.
Power Good or Power Fail	Standard - Norm logic "1". AC Power Fail Signal is a Normal '1' which switches states at least 5 msec before loss of outputs after AC Failure.
Operating Temperature	-20°C to 50°C full output. 50°C to 75°C, derate 2%°C.
Stability	All outputs 0.5% for 8 hrs. after 1 hour warm-up.
Humidity	Up to 95% non-condensing.
EMI	Meets FCC Class A and EN55022 Level A
Size	5.5"x11.50"x3.80" over fan
Weight	5 lbs.
Safety	UL 1950, CSA 950-95, EN60950.

SERIES BREAKDOWN: **SPX-500S ONE OUTPUT** **SPX-500T THREE OUTPUT**
SPX-500D TWO OUTPUT **SPX-500Q FOUR OUTPUT**

THEN ADD: **-S FOR SELECTABLE OR -U FOR UNIVERSAL INPUT**
THEN ADD: **-F FOR TOP FAN; OR LEAVE OFF THE -F IF THE USER WILL PROVIDE COOLING.**
OR ADD: **-F1 FOR SIDE FAN; OR LEAVE OFF THE -F1 IF THE USER WILL PROVIDE COOLING.**
EXAMPLE: **SPX-500T-UF; THREE OUTPUT; WITH TOP FAN; UNIVERSAL INPUT; SPECIFY OUTPUT VOLTAGES, CURRENTS AND OTHER OPTIONS.**

REV:A

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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