ES SERIES

850 WATT
ONE TO FIVE OUTPUTS

MADE IN THE U.S.A.

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SWITCHING POWER, INC.
Regulated D.C. Power



HIGH RELIABILITY GREATER THAN 90,000 HRS. MTBF

FEATURES:

Proven Modular Design
Sizes 5.0" x 8.0" x 12.35"
75% Efficiency Typical
Meets EN55022 Level A / FCC Class A
Isolated Outputs
Current Share
Power Good Signal
Power Fail

Configure Your Output Requirements:

*Contact factory for additional output variations

	OUTPUT VOLTAGE (VDC)	**OUTPUT AMPERS** (MAX)	**OUTPUT POWER** (WATTS)
V1	**2 to 48**	**120**	**600**
V2	**2 to 24**	**20**	**200**
V3	**2 to 24**	**5**	**100**
V4	**2 to 24**	**5**	**100**
V5	**5,6,12,15 or 24**	**3**	**60**

TOTAL OUTPUT POWER NOT TO EXCEED 850 WATTS

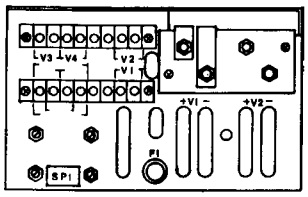
EAST COAST:
3601 VETERANS HIGHWAY
RONKONKOMA, NEW YORK 11779
TEL **(516) 981-7231** FAX **(516) 981-7266**

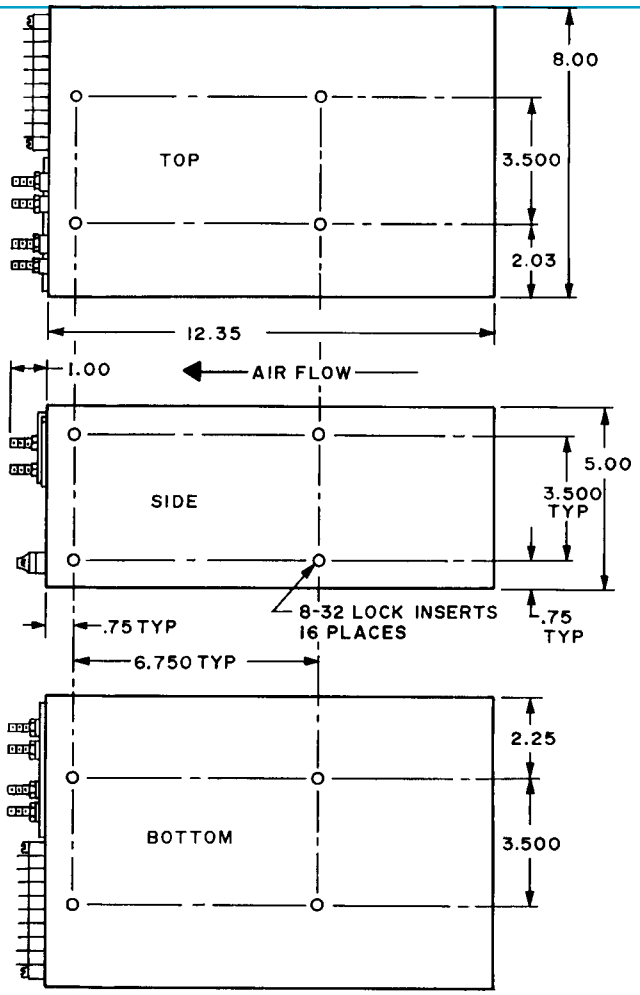
WEST COAST:
599 N. MATHILDA AVENUE
SUNNYVALE, CALIFORNIA 94086
TEL **(408) 732-1230** FAX **(408) 732-5712**

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ES SERIES
850 WATT

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





Nominal Input Voltage	100/115/208/230 VAC
Frequency	47-63 Hz; single phase.
Operational Input Voltage Range	90 to 132 VAC or 165 to 256 VAC or 180 to 264 VAC.
Inrush Current	Less than 4 msec 80 amperes @ 115 VAC, or 160 amperes @ 230 VAC.
Fusing	Ceramic body fuse.
Efficiency	75% typical.
Turn on time	Less than 150 msec.
Load Regulation	0.5% for 10% to 100% load changes, all outputs. 25% min. load required on V1 for max load reg. on outputs V2 to V5.
Line Regulation	± 0.5% over operating line range, all outputs.
Ripple & Noise	100MV peak to peak.
Transient Response V1	Output maximum excursion of ± 5% for 25% load step. Recovery less than 500 msec.
Transient Response V2-V5	Output maximum excursion of ± 2% for 25% load step. Recovery less than 500 msec.
Short Circuit and Overload Protection	All outputs are protected from short circuit and overload.
Overshoot	No turn-on or turn-off overshoot.
Overvoltage Protection	V1, V2 voltage clamp factory set at 20% to 30% above output voltage. V3, V4, V5 failsafe design.
Overtemperature Protection	Unit shuts down if overheated.
Cooling	Internal Fan provides cooling.
Input/Output Isolation	4242VDC, SELV construction.
Remote Sense V1, V2 Output	Up to 1.2 volts or 10% of outputs. Senses for cables or redundant diodes.
Remote On/Off	Barrier block or internal connector available for remote on-off supply control.
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	5.0" by 8.0" x 12.35".
Weight	13.60 lbs.

Model Designation: **Determine the number of outputs required; ESD (two), EST (three), ESQ (four), ESF (Five) : Maximum total power is 850 Watts.**

Output No. 1 is designated H 2 to 48 VDC, max. of 120Amps or 600 Watts.
Output No. 2 is designated HH 2 to 24 VDC, max. of 20Amps or 200 Watts.
Output No. 3 is designated L 2 to 24 VDC, max. of 5Amps or 100 Watts.
Output No. 4 is designated L 2 to 24 VDC, max. of 5Amps or 100 Watts.
Output No. 5 is designated L 5, 6, 12, 15 or 24 VDC, max. of 3Amps or 60 Watts.
Example: A three output system requiring 5VDC@110A, 12VDC@15A and 24VDC@4A would be: EST-5HC-12HHC-24L-U

REV:-