FESX-5000P

5000 Watts
3-Phase Input
Rugged Design Intended for Military Radar Systems

KEY FEATURES:

- 5000 Watts in a 5.00" x 9.36" x 10.90" Modular Design
- 3-Phase 208 Vac Input with Power Factor Correction Exceeding 0.93
- +48 Vdc/104A Output
- Custom Input/Output Configurations Available
- N+1 Redundant with Internal Oring Diodes
- Zero Wire Current Sharing
- DC_OK Signal with LED Indicators
- Ruggedized Mechanical Design
- One Year Warranty
- Greater than 500,000 Hrs MTBF in Redundancy
- Proudly Made in U.S.A.

Switching Power, Inc.
Regulated Power

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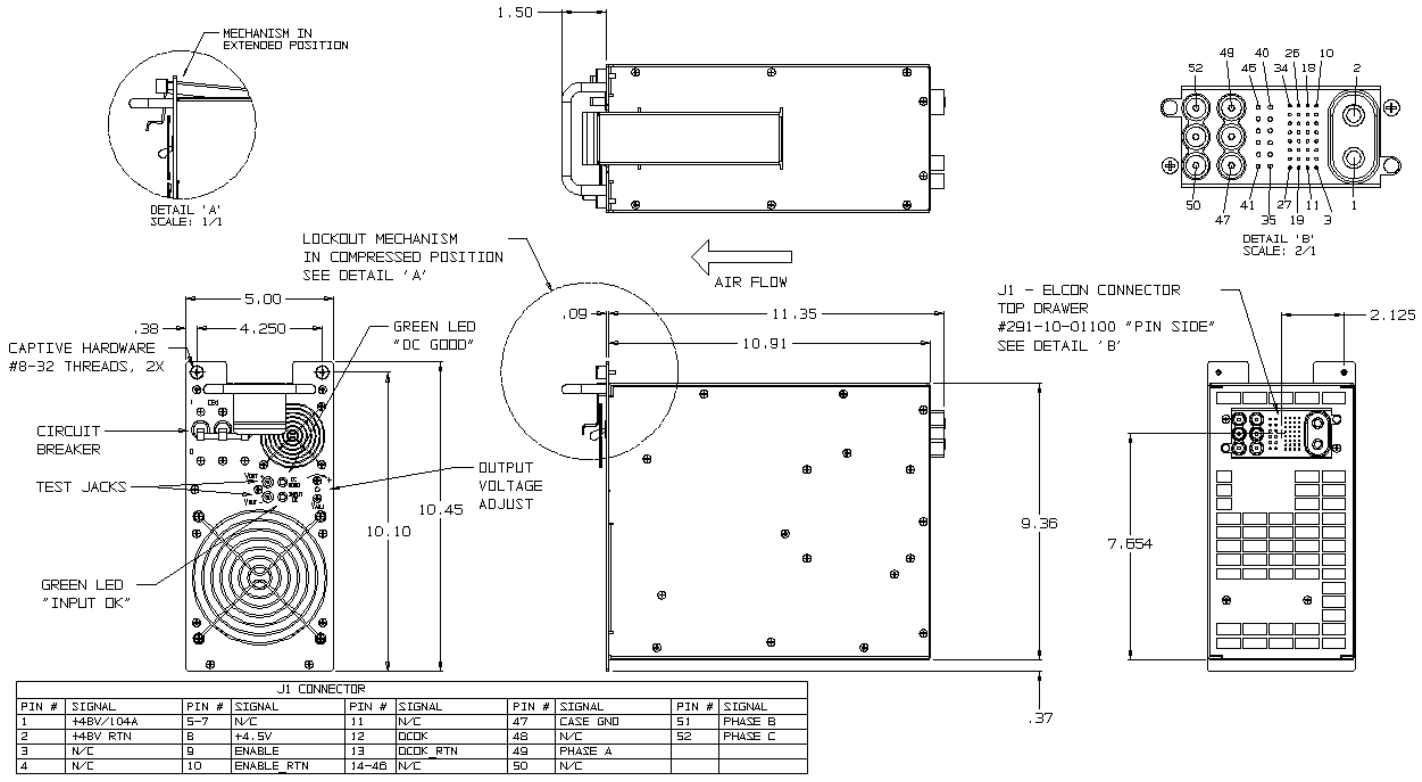
AS9100 ISO 9001 REGISTERED

FESX-5000P



J1 CONNECTOR									
PIN #	SIGNAL	PIN #	SIGNAL	PIN #	SIGNAL	PIN #	SIGNAL	PIN #	SIGNAL
1	+48V/104A	5-7	N/C	11	N/C	47	CASE GND	51	PHASE B
2	+48V RTN	8	+4.5V	12	DCOK	48	N/C	52	PHASE C
3	N/C	9	ENABLE	13	DCOK RTN	49	PHASE A		
4	N/C	10	ENABLE_RTN	14-46	N/C	50	N/C		

Nominal Input Voltage Frequency	208 Vac 3-Phase, 16A max. 47-63Hz, 400Hz.
Operational Input Voltage Range	187 - 264 Vac Power Factor 0.95 typical at full load.
Input Load Balance	Current loading for any phase does not exceed the average of the currents in all 3 phases by more than 5%.
Inrush Current	Less than 200 msec. 40 amperes @ 220 Vac.
Fusing	(3 X 25 Ampere)/250 Vac, Very fast acting. Internal ceramic body fuses.
Hold up time	20msec minimum after loss of AC Input at full load.
Efficiency	85% typical.
Turn on time	1 sec max. from power up.
Line and Load Regulation	±1% over AC input range and 0 to 100% load change.
Minimum Load	No minimum load required.
Ripple & Noise	Through 20MHz 500mVpk-pk, with coaxial probe and 0.1µF/10µF capacitors at the connector.
Transient Response	Output maximum excursion of ± 5% for full load step. Recovery less than 500 µsec.
Overshoot	No turn-on or turn-off overshoot.
Output Isolation	Isolated from chassis ground, 50Vdc.
Input/Output Isolation	2200 Vdc from input to both chassis/outputs. SELV construction.
Reverse Voltage	Protected against reverse voltage to supply current rating.
Overvoltage Protection	Shutdown at 130% of nominal Vout. Recycle input power to reset.
Overtemperature Protection	Unit shuts down if overheated. Automatic recovery.
Leakage Current	2.0mA max at 240Vac.

Current Limiting	Output short circuit protected with FOLDBACK protection. Automatic recovery when overload or short is removed.
Paralleling	Two or more supplies can be operated in parallel and will share load current within 10% of each other.
Redundant	Full power N+1 redundant with integral Oring Diodes.
Remote Sense	Compensates for up to 2V total distribution voltage drop on the output.
Enable	Floating OPTO input. Energize to turn on.
Output Setting	Can be configured +46.0 to +56.0 Vdc.
DC_OK Signal	Floating OPTO output which goes high whenever the output fails, an overtemperature condition or an over voltage shut down.
Indicators	Green LED indicating DC_OK. Green LED indicating INPUT OK.
Test Points	Output test point located on front panel.
Cooling	Forced Air Cooled, back to front design.
Operating Temperature	-20°C to 40°C operating temperature.
Stability	0.1% for 8 hrs. after 30 minute warm-up.
Humidity	Up to 95% non-condensing.
Storage Temperature	-40°C to 85°C.
Connectors	ELCON Top Drawer series.
Size	5.00" x 9.36" x 10.90"
Weight:	28 lbs.
EMC	Designed to meet Mil-Std-461F (when used in SPI Rack assembly).
Safety	Consult factory.
Common Options	Conformal coating (Acrylic or Paylene), ruggedization, increased energy storage & special output configurations. Consult factory.