



3005 Avenida Simi, Simi Valley, CA 93063
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www.smxpower.com

150WATT
SINGLE OUTPUT SWITCHING
POWER SUPPLY
FHE150-SX-F-L-SP SERIES



□ INPUT

VOLTAGE	AC INPUT: 85V (MIN.) ~ 264V (MAX.) DC INPUT: 120V(MIN.) ~ 375V(MAX.) UNIVERSAL FULL RANGE.
FREQUENCY	47~63Hz.
CURRENT	2.2 A MAX. AT 100V AC INPUT, FULL LOAD CONDITION
INRUSH CURRENT	35A MAX. AT 115V AC INPUT, FULL LOAD CONDITION 70A MAX. AT 230V AC INPUT, FULL LOAD CONDITION * COLD START, AT 25 °C AMBIENT.
LEAKAGE CURRENT	1.5mA MAX. AT 264V AC INPUT.
POWER FACTOR CORRECTION CIRCUIT	MEET IEC 1000-3-2 CLASS D STANDARD. (P.F. > 0.95)

□ DC OUTPUT

MODEL NO.	FHE150-3.3SX-F-L-SP	FHE150-05SX-F-L-SP	FHE150-7.5SX-F-L-SP	FHE150-12SX-F-L-SP
VOLTAGE	3.3 V	5 V	7.5 V	12 V
MIN. LOAD	0 A	0 A	0 A	0 A
MAX. LOAD	30 A	30 A	20 A	12.5 A
REGULATION	±3%	±2%	±2%	±1%
RIPPLE & NOISE (MAX.)	50mV	70mV	80mV	100mV
EFFICIENCY (TYP.)	69%	75%	77%	80%
OVP	3.8V ~ 4.6V	5.8V ~ 7.0V	8.6V ~ 10.5V	13.8V ~ 17.5V
OUTPUT (MAX.)	100 W	150 W		
MODEL NO.	FHE150-15SX-F-L-SP	FHE150-24SX-F-L-SP	FHE150-27SX-F-L-SP	FHE150-48SX-F-L-SP
VOLTAGE	15 V	24 V	27 V	48 V
MIN. LOAD	0 A	0 A	0 A	0 A
MAX. LOAD	10 A	6.3 A	5.6 A	3.2 A
REGULATION	±1%	±1%	±1%	±1%
RIPPLE & NOISE (MAX.)	120mV	150mV	180mV	250mV
EFFICIENCY (TYP.)	80%	83%	84%	84%
OVP	17.3V ~ 21.0V	27.6V ~ 33.6V	31.1V ~ 37.8V	55.2V ~ 67.2V
OUTPUT (MAX.)	150 W			

ELECTRONIC CHARACTERISTICS

RISE TIME	20mS MAX.
HOLD UP TIME	20mS MIN. TEST CONDITION AT 230V AC INPUT, AC OFF POINT AT 0 DEGREE.
SETUP TIME	2S MAX. TEST CONDITION AT 115V AC INPUT.
SHORT CIRCUIT PROTECTION	WHEN OUTPUT SHORT TO GROUND, THE POWER SUPPLY WILL SHUTDOWN AND AUTO RECOVERY WHEN SHORT CIRCUIT CONDITION HAS BEEN REMOVED.
OVER LOAD PROTECTION	WHEN OUTPUT POWER OVER 105% TO 150% OF RATED LOAD, THE POWER SUPPLY WILL SHUTDOWN AND AUTO RECOVERY WHEN FAULT CONDITION HAS BEEN REMOVED.
OVER TEMPERATURE PROTECTION (OPTION)	WHEN THE POWER SUPPLY TEMPERATURE OVER 95°C, THE POWER SUPPLY WILL SHUTDOWN.
REMOTE CONTROL ON/OFF (OPTION)	RC+ / RC-: 0 ~ 0.7 V = POWER ON ; 3 ~ 10 V = POWER OFF. SINK CURRENT: 3 ~ 10 mA.
OUTPUT VOLTAGE ADJUSTMENT:	±10% OF RATED VOLTAGE.

PHYSICAL ENVIRONMENT (AMBIENT)

TEMPERATURE RANGE	
OPERATING TEMPERATURE RANGE	0 ~ 70 °C
DERATING FACTOR	50°C ~ 70°C: 2.5%/°C
STORAGE	-10 TO +75 °C
HUMIDITY	
OPERATION	20% TO 85% RH. (NON CONDENSING)
STORAGE AND SHIPPING	10% TO 95% RH. (NON CONDENSING)

COOLING

NATURAL COOLING.

SAFETY

UL 60950, CSA C22.2 No.60950, TUV EN 60950, IEC60950, CB, CE Certified.

EMC:

THIS PRODUCT IS DESIGN TO COMPLY WITH THE FOLLOWING STANDARDS

EMI: FCC CFR 47 PART 15 SUBPART J, CLASS B LIMIT

EN 50081-1:1997 EMISSION STANDARD, CNS 13438 CLASS B

M.T.B.F.

200K HOURS APPROXIMATELY, ACCORDING TO MIL-HDBK-217F AT 25°C ENVIRONMENT

□ BURN-IN TEST

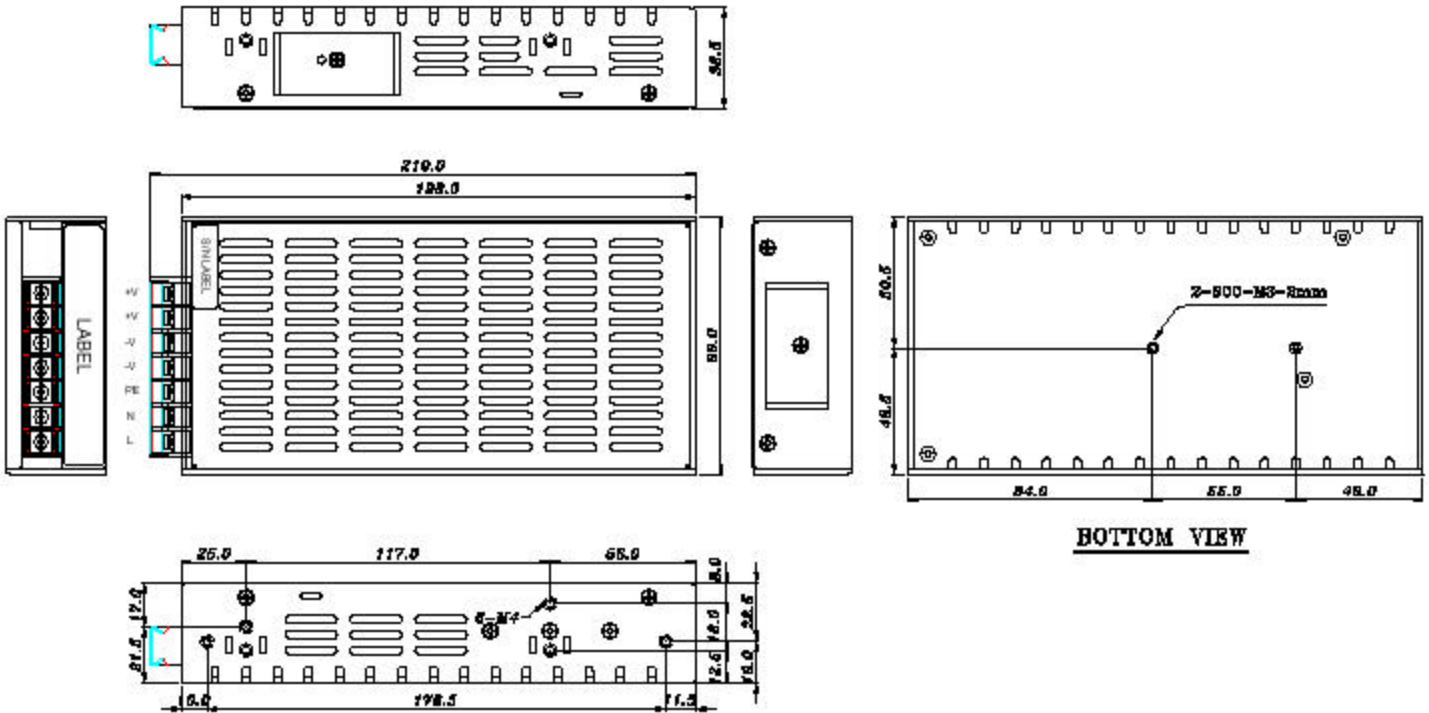
100% 50°C

□ MECHANICAL DATA

OUTLINE DIMENSION: W 99 × D 198 × H 38 mm

PACKING: N.W.: 0.9Kg/1pc; 18pcs/1.38 Cu ft³/1 CTN

UNIT: mm



BOTTOM VIEW

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