

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 | | | |

SMX POWER

3005 Avenida Simi, Simi Valley, CA 93063
 TEL: (805) 582-2804 FAX: (805) 582-2308
<http://www.smxpower.com>

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

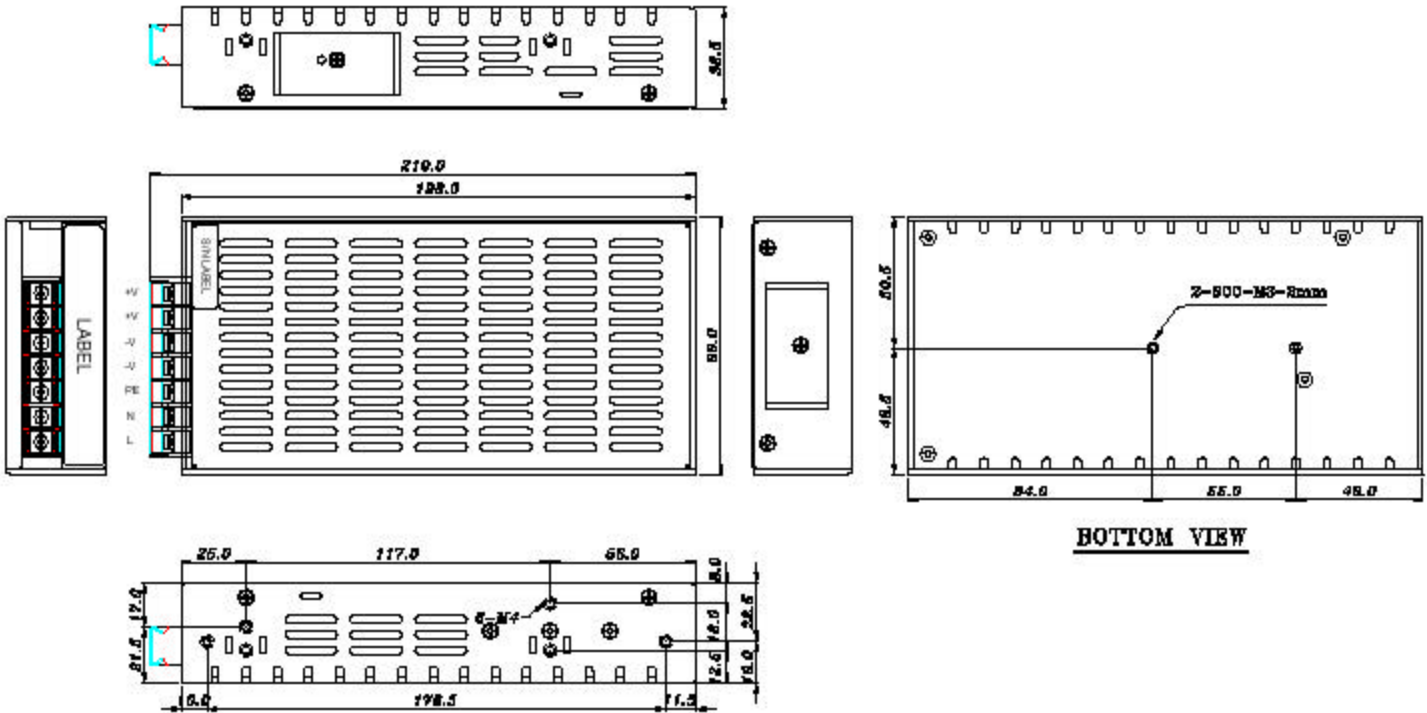
100% 50°C

□ 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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