



■ Features :

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- High efficiency up to 90%
- Low leakage current<0.4mA
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection for 150W and 200W with 30CFM forced air
- Low profile:32mm
- · Conformal coated
- ZVS technology to reduce power dissipation
- · Built-in remote sense
- LED indicator for power on
- 3 years warranty







SPECIFICATION

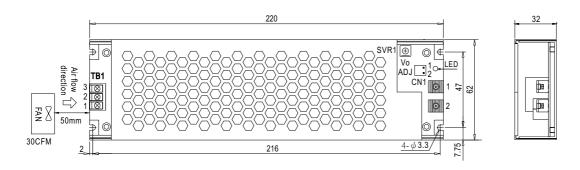
| MODEL | | HSP-150-2.5 | HSP-150-3.8 | HSP-150-5 | | |
|-------------|--|--|-------------------------|-------------------------|--|--|
| | DC VOLTAGE | 2.5V | 3.8V | 5V | | |
| | RATED CURRENT | 30A | 30A | 30A | | |
| | CURRENT RANGE(convection) | 0 ~ 30A | 0~30A | 0 ~ 30A | | |
| | PEAK CURRENT RANGE(30CFM FAN) | 0 ~ 40A | 0 ~ 40A | 0 ~ 40A | | |
| | RATED POWER(convection) | 75W | 114W | 150W | | |
| | PEAK POWER(30CFM FAN) | 100W | 152W | 200W | | |
| OUTPUT | RIPPLE & NOISE (max.) Note.2 | | 100mVp-p | 100mVp-p | | |
| | VOLTAGE ADJ. RANGE | 2.35~2.75V | 3.4~4.2V | 4.5~5.5V | | |
| | VOLTAGE TOLERANCE Note.3 | | ±2.0% | ±2.0% | | |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | | |
| | LOAD REGULATION | ±1.0% | ±1.0% | ±1.0% | | |
| | SETUP, RISE TIME | 2000ms, 100ms/230VAC 3000ms, 100ms/115VAC at full load | | | | |
| | HOLD UP TIME (Typ.) | 16ms/230VAC 16ms/115VAC at full load | | | | |
| | VOLTAGE RANGE Note.4 | | rau . | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | |
| | POWER FACTOR (Typ.) | PF ≥ 0.95/230VAC PF ≥ 0.98/115VAC | at full load | | | |
| INPUT | EFFICIENCY (Typ.) | 86% | 88% | 90% | | |
| | , , , | 0.8A/115VAC 0.4A/230VAC | 1.2A/115VAC 0.6A/230VAC | 1.5A/115VAC 0.8A/230VAC | | |
| | AC CURRENT (Typ.) INRUSH CURRENT (Typ.) | | 1.2A/115VAC | 1.5A/115VAC | | |
| | | Cold start 70A/230VAC | | | | |
| | LEAKAGE CURRENT | <0.4mA / 240VAC | | | | |
| | OVERLOAD | 140~180% rated output power | | | | |
| | OU ORT OIR OUT | Protection type: Hiccup mode, recovers automatically after fault condition is removed Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | |
| PROTECTION | SHORT CIRCUIT | ,, , , | 4.7 ~ 5.7V | F 7 7 0 V | | |
| | OVER VOLTAGE | 3.2 ~ 3.7V | | 5.7 ~ 7.0V | | |
| | | Protection type: Shut down o/p voltage, re-power on to recover | | | | |
| | OVER TEMPERATURE | 110°C±5°C(TSW1) | | | | |
| | WORKING TEMP | Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | |
| | WORKING TEMP. | -30 ~ +70°C (Refer to "Derating Curve") | | | | |
| ENVIRONMENT | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0~60°C) | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | |
| | SAFETY STANDARDS | UL60950-1,EN60950-1 approved | | | | |
| SAFETY & | WITHSTAND VOLTAGE | I/P-O/P:3.0KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | | | | |
| EMC | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C/70%RH | | | | |
| (Note 5) | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B,EN61000-3-2,EN61000-3-3 | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11;EN55024, light industry level (surge 4KV), criteria A | | | | |
| | MTBF | 263.2K hrs min. MIL-HDBK-217F (25°C) | | | | |
| OTHERS | DIMENSION | 220*62*32mm (L*W*H) | | | | |
| | PACKING | 0.61kg; 24pcs/15.6kg/1.63CUFT | | | | |
| NOTE | Ripple & noise are measure Tolerance : line regulation a Derating may be needed up The power supply is consided a 360mm*360mm metal plane. | specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. leasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. lation and load regulation. lation and lation. | | | | |



■ Mechanical Specification

CASE NO.:208A

Unit:mm



AC Input Terminal(TB1) pin NO. Assignment

| | , | / 1 |
|---------|------------|-------------|
| Pin No. | Assignment | Terminal |
| 1 | AC/L | |
| 2 | AC/N | T21-BM10-03 |
| 3 | FG ≟ | |

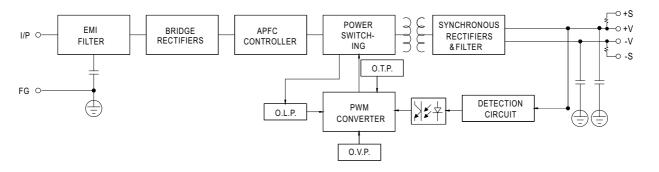
Remote sense pin(CN1):JS-1001-02 or equivalent

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|--|------------|----------------|---------------|--|
| Pin No. | Assignment | Mating Housing | Terminal | |
| 1 | -S | JS-2001-02 | JS-1001-02 | |
| 2 | +S | or equivalent | or equivalent | |

DC Output Terminal pin NO. Assignment

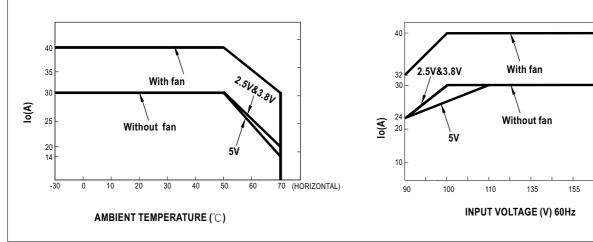
| Pin No. | Assignment | Terminal |
|---------|------------|------------|
| 1 | -V | CPB-7 M5 |
| 2 | +V | CFB-7 IVIS |

■ Block Diagram



■ Derating Curve

■ Static Characteristics



230 264

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