



■ Features :

- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 86%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- 1U low profile 36mm
- Conformal coated
- ZVS technology to reduce power dissipation
- LED indicator for power on
- 3 years warranty



SPECIFICATION

| MODEL | | HDP-190 | |
|-----------------------|--|--|---|
| OUTPUT | OUTPUT NUMBER | V1 | V2 |
| | DC VOLTAGE | +3.8V | +2.8V |
| | RATED CURRENT | 33A | 20A |
| | CURRENT RANGE (max.) | 0 ~ 40A | 0 ~ 22A |
| | RATED POWER | 181.4W (typ.) | 192W (max.) |
| | OUTPUT POWER (max.) | 192W continue. V1 total power output shall not exceed 160W (max. 40A) ; V2 total power output shall not exceed 66W (max. 22A) (The V1 & V2 combine total power output shall not exceed 192W) | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 100mVp-p |
| | VOLTAGE ADJ. RANGE Note.6 | 3.6 ~ 4V | 2.5 ~ 3V |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±2.0% |
| | LINE REGULATION | ±0.5% | ±0.5% |
| | LOAD REGULATION | ±2.0% | ±2.0% |
| | SETUP, RISE TIME | 1000ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load | |
| | HOLD UP TIME (Typ.) | 16ms/230VAC 16ms/115VAC at full load | |
| INPUT | VOLTAGE RANGE Note.5 | 90 ~ 264VAC | 127 ~ 370VDC |
| | FREQUENCY RANGE | 47 ~ 63Hz | |
| | POWER FACTOR (Typ.) | PF≥0.94/230VAC | PF≥0.98/115VAC at full load |
| | EFFICIENCY (Typ.) | 86% | |
| | AC CURRENT (Typ.) | 2.7A/115VAC | 1.1A/230VAC |
| | INRUSH CURRENT (Typ.) | 30A/115VAC | 45A/230VAC |
| | LEAKAGE CURRENT | <0.7mA / 240VAC | |
| PROTECTION | OVERLOAD | V1+V2: 105 ~ 150% max. output power ; or V2: 125 ~ 170% rated current Protection type: Hiccup mode, recovers automatically after fault condition is removed | |
| | OVER VOLTAGE | V1: 4.37 ~ 5.13V | V2: 3.22 ~ 3.78V Protection type : Shut down o/p voltage, re-power on to recover |
| | OVER TEMPERATURE | Shut down o/p voltage, re-power on to recovery | |
| ENVIRONMENT | WORKING TEMP. | -30 ~ +70°C (Refer to "Derating Curve") | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL60950-1, TUV EN60950-1, CCC GB4943.1, EAC TP TC 004 approved | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32), GB9254, class B, EN61000-3-2,-3, GB17625.1, EAC TP TC 020 | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A, EAC TP TC 020 | |
| OTHERS | MTBF | 111.3K hrs min. MIL-HDBK-217F (25°C) | |
| | DIMENSION | 215*115*36mm (L*W*H) | |
| | PACKING | 0.95Kg; 15pcs/15.3Kg/0.7CUFT | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</p> <p>5. Derating may be needed under low input voltages. Please check the derating curve for more details.</p> <p>6. Output voltage between V1 and V2 should be higher than 1.0V(V1-V2≥1.0V).</p> | | |

