



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		
-		V1	V2	
OUTPUT	DC VOLTAGE	+3.8V	+2.8V	
	RATED CURRENT	33A	20A	
	CURRENT RANGE (max.)	0 ~ 40A	0 ~ 22A	
	RATED POWER	181.4W (typ.) 192W (max.) 192W continue. V1 total power output shall not exceed 160W (max. 40A); V2 total power output shall not exceed 66W (max. 22A)		
	OUTPUT POWER (max.)	(The V1 & V2 combine total power output shall not exceed 192W)		
	RIPPLE & NOISE (max.) Note.2	,		
	VOLTAGE ADJ. RANGE Note.6		100mVp-p	
	VOLTAGE ADJ. RANGE Note.6 VOLTAGE TOLERANCE Note.3		2.5 ~ 3V ±2.0%	
	LINE REGULATION	±0.5%	±2.0% ±0.5%	
	LOAD REGULATION	±2.0%	±2.0%	
	SETUP, RISE TIME	1000ms, 50ms/230VAC 2500ms, 50ms/115VAC at full loa	100	
		16ms/230VAC 16ms/115VAC at full load		
	HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC		
INPUT	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	ELANGE GONNEN	V1+V2: 105 ~ 150% max. output power; or V2: 125 ~ 170% rated current		
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	V1: 4.37 ~ 5.13V		
		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 STANDARDS	UL60950-1, TUV EN60950-1, CCC GB4943.1 approved		
SAFETY &	WITHSTAND VOLTAGE	THSTAND VOLTAGE I/P-O/P:3KVAC 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 4)	EMC EMISSION	Compliance to EN55022 (CISPR22), GB9254, class B, EN61000-3-2,-3, GB17625.1		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A		
	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	Ripple & noise are measure Tolerance: includes set up The power supply is consided EMC directives. Derating may be needed up	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ired at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. It is to be regulation and load regulation. It is to be re-confirmed that it still meets and or input voltages. Please check the derating curve for more details. In and V2 should be higher than 1.0V(V1-V2≥1.0V).		
			File Name:HDP-190-SPEC 2015-02-	



