



190W Dual Output with PFC Function





■ 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 NUMBER	V1	V2	
ОИТРИТ	DC VOLTAGE	+3.8V	+2.8V	
	RATED CURRENT	33A	20A	
	CURRENT RANGE (max.)	0 ~ 40A	0 ~ 22A	
	RATED POWER	181.4W (typ.) 192W (max.)		
	TOTAL DI TOTALI DI TOTAL DI TOTAL DI TOTAL DI TOTAL DI TOTALI DI	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		100mVp-p	
	VOLTAGE ADJ. RANGE Note.6		2.5 ~ 3V	
	VOLTAGE TOLERANCE Note.3		±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		
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load		
INPUT		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 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		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A		
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	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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) Derating may be needed under low input voltages. Please check the derating curve for more details. Output voltage between V1 and V2 should be higher than 1.0V(V1-V2≥1.0V). 			
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