



Features:

- Universal AC input / Full range
- Built-in active PFC function, PF≥0.94
- 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







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. 40A) (The V1 & V2 combine total power output shall not exceed 192W)		
	RIPPLE & NOISE (max.) Note.2		100mVp-p	
	VOLTAGE ADJ. RANGE Note.6	1 1	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 load		
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load		
		90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	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	<2mA / 240VAC		
PROTECTION	OVERLOAD	V1+V2: 105 ~ 150% max. output power; or V2: 125 ~ 170% rated current		
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed V1: 4.37 ~ 5.13V		
		Protection type: Shut down o/p voltage, re-power on to recover 95°C ±5°C (TSW1) detect on heatsink of power transistor		
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recovery		
	WORKING TEMP	-30 ~ +70°C (Refer to "Derating Curve")		
ENVIRONMENT	WORKING TEMP.	20 ~ 90% RH non-condensing		
	WORKING HUMIDITY	•		
	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 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC 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 EN55022 (CISPR22) class B, EN61000-3-2,-3		
	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℃)		
	DIMENSION	215*115*36mm (L*W*H)		
	PACKING	0.95Kg; 15pcs/15.3Kg/0.7CUFT		

- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
- 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 0.8V(V1-V2≥0.8V).



