



## ■ Features

- Slim and Low profile (41mm)
- Fanless and conduction-cooled design
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- -30~+70°C working temperature
- Protections: Short circuit / Overload / Over voltage / Over temperature
- DC OK relay contact
- Operating altitude up to 5000 meter (Note.6)
- LED indicator for power on
- 3 years warranty

## ■ Certificates

- Safety: UL/EN62368-1
- EMC: EN 55032 / 55024

## ■ Applications

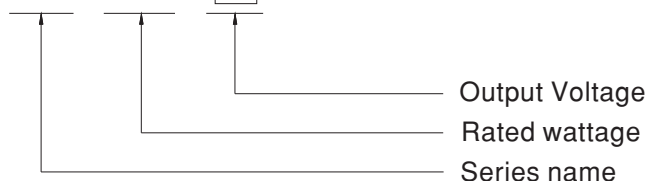
- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- Household appliances

## ■ Description

UHP-750 series is a 750W single-output slim type power supply with 41mm of low profile design. Adopting the full range 90~264VAC input, the entire series provides an output voltage line of 12V, 24V, 36V and 48V. In addition to the high efficiency up to 95%, that the whole series operates from -30°C ~ 70°C under air convection without fan. UHP-750 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV EN62368-1 and UL62368-1. and design refers to EN61558-1 and EN60335-1. UHP-750 series serves as a high performance power supply solution for various industrial applications.

## ■ Model Encoding

UHP - 750 - 12





750W Slim Type with PFC Switching Supply

**UHP-750** series

**SPECIFICATION**

MODEL		UHP-750-12	UHP-750-24	UHP-750-36	UHP-750-48	
OUTPUT	DC VOLTAGE	12V	24V	36V	48V	
	RATED CURRENT	60A	31.3A	20.9A	15.7A	
	RATED POWER(convection)	720W	751.2W	752.4W	753.6W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	200mVp-p	250mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	12~14.4V	24~28.8V	36~43.2V	48~57.6V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1000ms, 50ms/230VAC 1000ms,50ms/115VAC at full load				
	HOLD UP TIME (Typ.)	12ms/230VAC	12ms/115VAC			
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF ≥ 0.95/230VAC PF ≥ 0.99/115VAC at full load				
	EFFICIENCY (Typ.)	93.5%	95%	95%	95%	
	AC CURRENT (Typ.)	7.5A/115VAC 3.8A/230VAC				
	INRUSH CURRENT (Typ.)	Cold start 20A/115VAC 40A/230VAC				
PROTECTION	LEAKAGE CURRENT	<0.75mA / 240VAC				
	OVERLOAD	105~125% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	14.5 ~ 16V	29 ~ 33V	43.5 ~ 49V	59 ~ 66V	
FUNCTION	OVER TEMPERATURE	Protection type: Shut down O/P voltage, recovers automatically after temperature goes down				
	DC-OK SIGNAL	Contact rating(max.): 30Vdc/1A resistive load				
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 non-condensing				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY & EMC (Note.5)	SAFETY STANDARDS	UL62368-1,TUV EN62368-1, EAC TP TC 004 approved; design refer to EN61558-1, EN60335-1				
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC I/P-FG: 2KVAC O/P-FG: 1.25KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C / 70%RH				
	EMC EMISSION	Parameter	Standard		Test Level / Note	
		Conducted	EN55032 (CISPR32)		Class B	
		Radiated	EN55032 (CISPR32)		Class B	
		Harmonic Current	EN61000-3-2		Class A	
	EMC IMMUNITY	Voltage Flicker	EN61000-3-3		-----	
		Parameter	Standard		Test Level / Note	
		EN55024 , EN61000-6-2				
		ESD	EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact	
		Radiated	EN61000-4-3		Level 3	
		EFT / Burst	EN61000-4-4		Level 3	
Surge		EN61000-6-2		2KV/Line-Line 4KV/Line-Earth		
Conducted		EN61000-4-6		Level 3		
OTHERS	Magnetic Field	EN61000-4-8		Level 4		
	Voltage Dips and Interruptions	EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
MTBF	MTBF	279.97K hrs min. Telcordia SR-332 (Bellcore); 104.86K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	237*100*41mm (L*W*H)				
	PACKING	1.4kg; 10pcs/15kg/0.8CUFT				
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 &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance :includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltages. Please check the derating curve for more details.</p> <p>5. 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p> <p>6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p>					