















- 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











## Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- · Household appliances
- Power Sourcing Equipment of PoE (48V model: DC O/P range 48~57.6V)

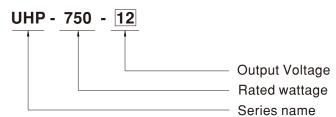
#### **■** GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

# Description

UHP-750 series is a 750W single-output slim type power supply with 41mm of low profile design. Adopting the full range  $90\sim264$ VAC 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  $\sim$  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 BS EN/EN62368-1 and UL62368-1. UHP-750 series serves as a high performance power supply solution for various industrial applications.

## ■ Model Encoding

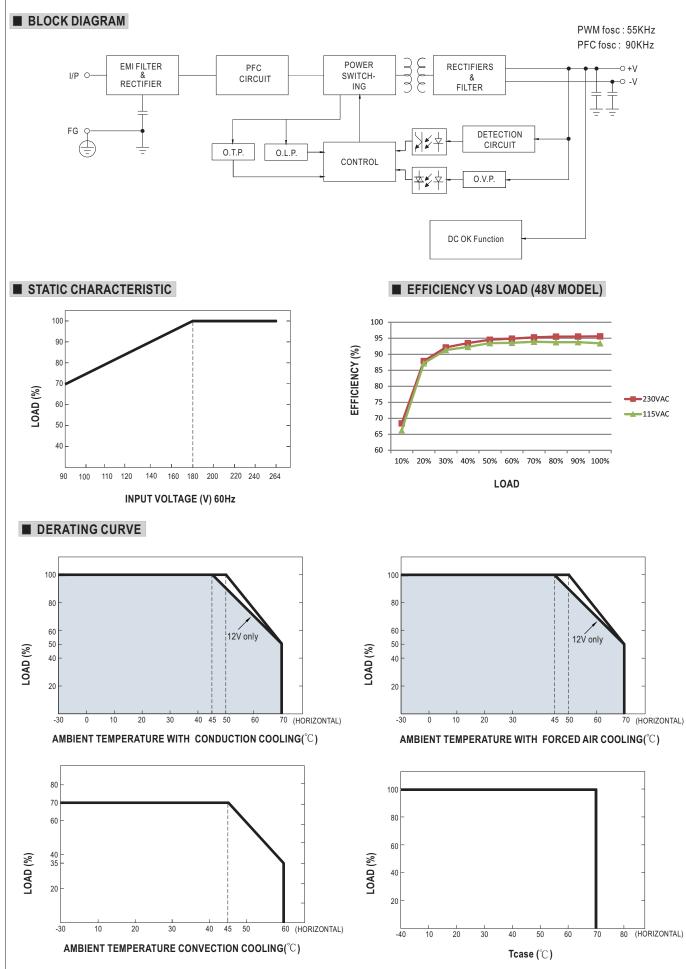




## **SPECIFICATION**

MODEL		UHP-750-12	UHP-750-24	UHP-750-36	UHP-750-48	
	DC VOLTAGE	12V	24V	36V	48V	
	RATED CURRENT	60A	31.3A	20.9A	15.7A	
	RATED POWER	720W	751.2W	752.4W	753.6W	
	RIPPLE & NOISE (max.) Note.2	· ·	200mVp-p	250mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	12~14.4V	24~28.8V	36~43.2V	48~57.6V	
OUTPUT						
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0% ±0.5%	±1.0% ±0.5%	
	LINE REGULATION	±0.5%	±0.5%		±0.5% ±0.5%	
	LOAD REGULATION	±0.5% ±0.5% ±0.5%			±0.5%	
		1000ms, 50ms/230VAC 1000ms, 50ms/115VAC at full load				
	HOLD UP TIME (Typ.)	12ms/230VAC 12ms/115VAC				
		90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.) Note.4	PF≥0.95/230VAC PF≥0.98/115VAC at full load				
INPUT	EFFICIENCY (Typ.)	93.5% 95% 95%				
	AC CURRENT (Typ.)	7.5A/115VAC 3.8A/230VAC				
	INRUSH CURRENT (Typ.)	Cold start 20A/115VAC 40A	/230VAC			
	LEAKAGE CURRENT	<0.75mA / 240VAC				
	OVER! OAR	105~125% rated output power				
	OVERLOAD	Protection type: Hiccup mode, re	ecovers automatically after fau	It condition is removed		
PROTECTION	OVED VOLTACE	14.5 ~ 16V	29 ~ 33V	43.5 ~ 49V	59 ~ 66V	
	OVER VOLTAGE	Protection type: Shut down O/P	voltage, re-power on to recove	er	·	
	OVER TEMPERATURE	Protection type: Shut down O/P voltage, recovers automatically after temperature goes down				
FUNCTION	DC-OK SIGNAL	Contact rating(max.): 30Vdc/1A resistive load				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating	Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	<u>-</u>			
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle,	60min, each along X, Y, Z axes			
	SAFETY STANDARDS					
	WITHSTAND VOLTAGE	UL62368-1,TUV BS EN/EN62368-1, EAC TP TC 004 approved  I/P-O/P: 3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M				
	IOOLATION REGISTANCE	Parameter	Standard		Test Level / Note	
		Conducted	BS EN/EN55032 (	CISPR32)	Class B	
	EMC EMISSION	Radiated	BS EN/EN55032 (	,	Class B	
	EWIC EMISSION	Harmonic Current	BS EN/EN61000-	· · · · · · · · · · · · · · · · · · ·	Class A	
045577.0		Voltage Flicker	BS EN/EN61000-			
SAFETY &	EMC IMMUNITY	BS EN/EN55035, BS EN/EN610		U-U		
EMC (Note.5)		•	Standard		Test Level / Note	
(11010.5)		Parameter ESD		4.2		
			BS EN/EN61000		Level 3, 8KV air ; Level 2, 4KV contact	
		Radiated	BS EN/EN61000-		Level 3	
		EFT / Burst			Level 3	
		Surge	BS EN/EN61000-		2KV/Line-Line 4KV/Line-Earth	
		Conducted	BS EN/EN61000-		Level 3	
		Magnetic Field	BS EN/EN61000-	4-8	Level 4	
		Voltage Dips and Interruptions	BS EN/EN61000-	4-11	>95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods	
	MTBF	833.9K hrs min. Telcordia SF	2-332 (Ballcora): 10/1 9K hrs mi	in. MIL-HDBK-217F (		
OTHERS	DIMENSION	833.9K hrs min. Telcordia SR-332 (Bellcore); 104.9K hrs min. MIL-HDBK-217F (25°C) 237*100*41mm (L*W*H)				
OTHERS	PACKING	1.4kg; 10pcs/15kg/0.8CUFT				
NOTE	All parameters NOT special     Ripple & noise are measure     Tolerance :includes set up t     Derating may be needed ur     The power supply is consid     a 360mm*360mm metal pla     perform these EMC tests, p     (as available on https://www     The ambient temperature de	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  ides set up tolerance, line regulation and load regulation.  e needed under low input voltages. Please check the derating curve and Static characteristics for more details.  ply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to EMC tests, please refer to "EMI testing of component power supplies."  https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)  mperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).  y Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				





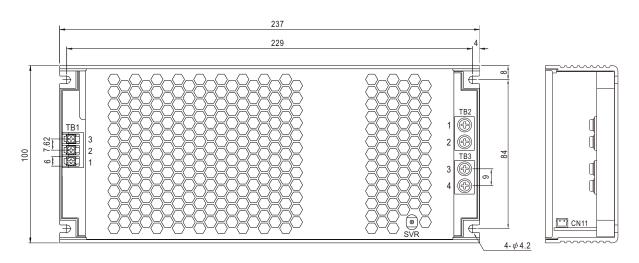


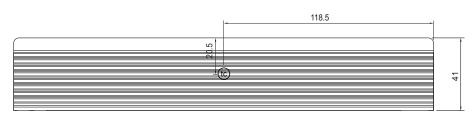
## ■ DC OK RELAY CONTACT

Contact Close	PSU turns on/DC ok
Contact Open	PSU turns off/DC fail
Contact Rating(max.)	30Vdc/1A resistive load

## ■ MECHANICAL SPECIFICATION

Case No.270B Unit:mm Tolerance:±1





#### AC Input Terminal (TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	DE04	
2	AC/N	DECA T21-EM10-03	9.2Kgf-cm
3	<u></u>	121 211110 00	

## DC Output Terminal(TB2,TB3) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1,2	+V	(MW)	
3,4	-V	NEL-400-02P	8Kgf-cm

#### DC OK Connector(CN11):JST S2B-PH-KL or requivalent

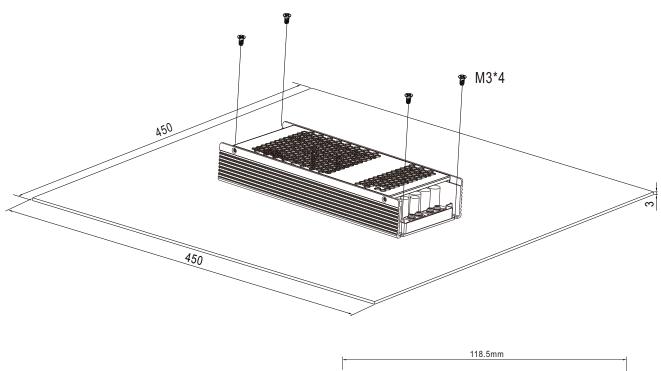
		,	
Pin No.	Assignment	Mating Housing	Terminal
1	DC COM1		JST SPH-002T-P0.5S
2	DC COM2	or requivalent	or requivalent

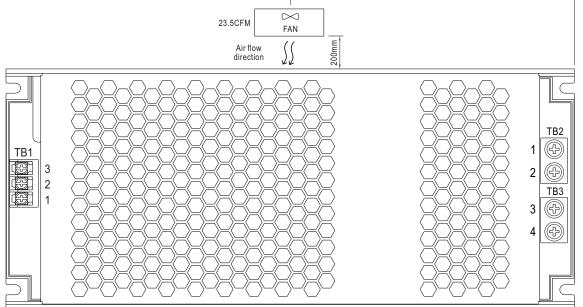


#### Operate with additional aluminum plate and fan

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-750 series can be installed onto an aluminum plate (or the cabinet of the same size) on the bottom or apply forced air cooled solution. The size of the suggested aluminum plate and configuration of fan are shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-750 series must be firmly mounted at the center of the aluminum plate.

unit:mm





#### **■ INSTALLATION MANUAL**

Please refer to : http://www.meanwell.com/manual.html