



■ **Features**

- Slim and Low profile (41mm)
- Fanless design, 750W convection
- 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**

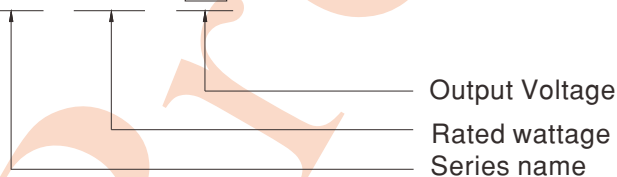
- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- Household appliances

■ **Description**

UHP-750 series is a 750W single-output slim type power supply with 41 mm 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 96%, 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. UHP-750 series serves as a high performance power supply solution for various industrial applications.

■ **Model Encoding**

UHP - 750 - 12

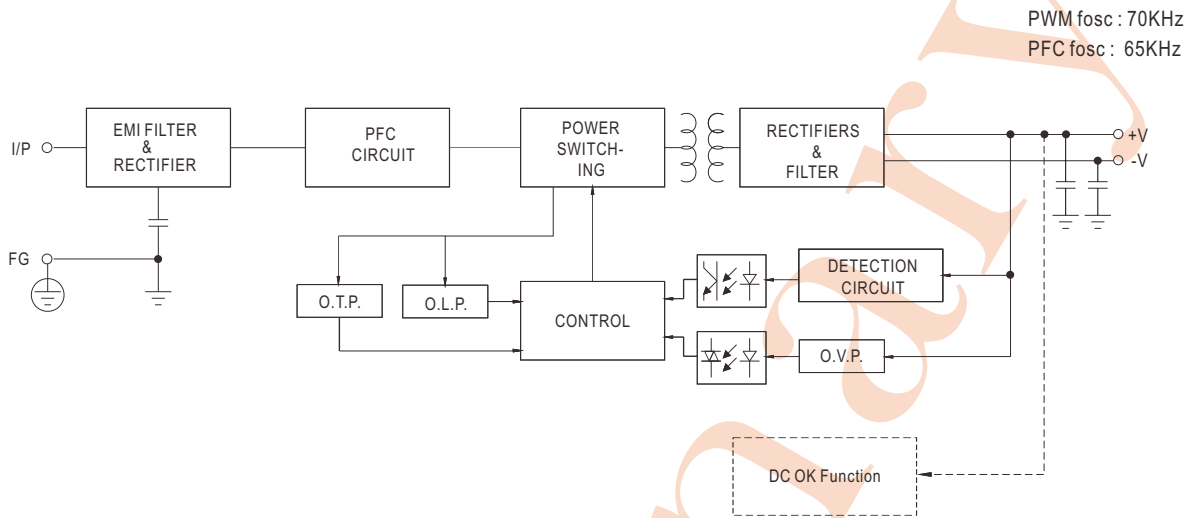




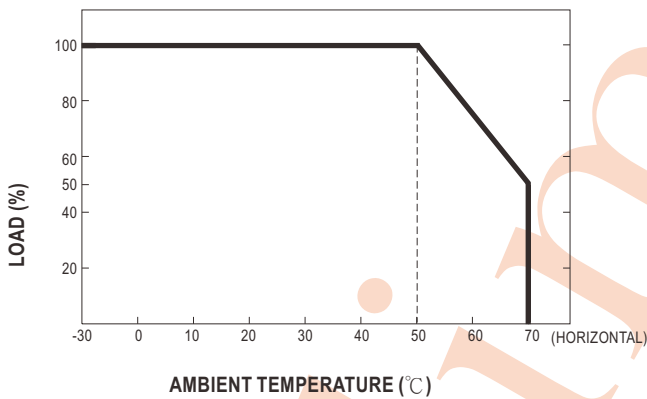
## SPECIFICATION

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	21A	15.7A
	RATED POWER(convection)	720W	751.2W	756W	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 at full load 115VAC/230VAC			
	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.)	94.5%	95%	95%	96%
	AC CURRENT (Typ.)	7.5A/115VAC	3.8A/230VAC		
	INRUSH CURRENT (Typ.)	Cold start 20A/115VAC 40A/230VAC			
	LEAKAGE CURRENT	<0.75mA / 240VAC			
PROTECTION	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
	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			
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			
	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,Class B, EN61000-3-2,-3, EAC TP TC 020			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, EN61000-6-2, heavy industry level ,criterial A, EAC TP TC 020			
OTHERS	MTBF	K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	237*100*41mm (L*W*H)			
	PACKING	kg; pcs/ kg/ CUFT			
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>				

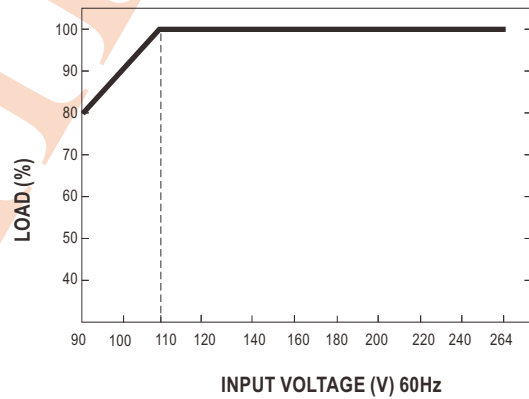
**■ BLOCK DIAGRAM**



**■ DERATING CURVE**



**■ STATIC CHARACTERISTIC**

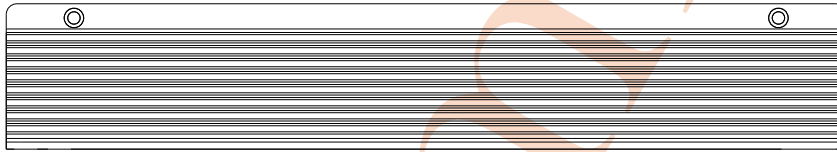
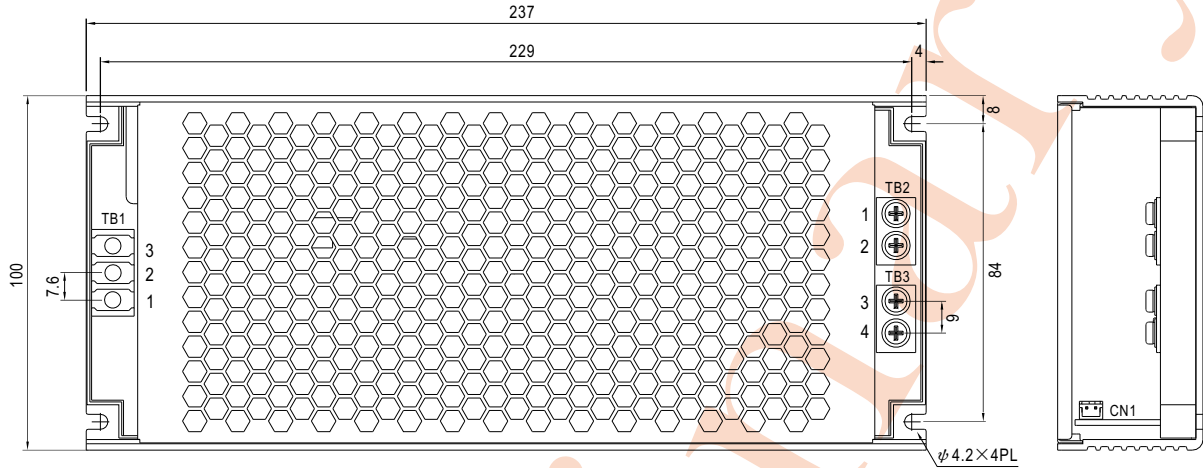


**■ DC OK RELAY CONTACT**

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. Unit:mm



AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(DEGSON) DG28C-B-03P	5Kgf-cm
2	AC/N		
3	$\perp$		

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

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

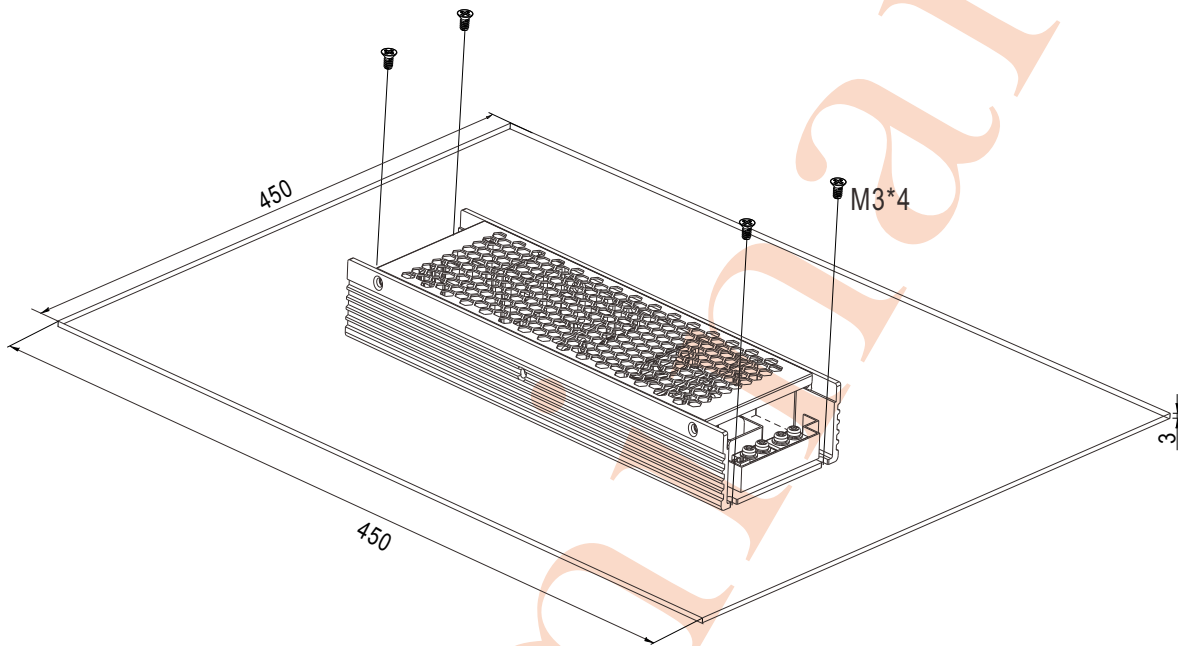
DC OK Connector(CN1):JST B2B-PH-K-S or equivalent

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

**Operate with additional aluminum plate**

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-750 series must be installed onto an aluminum plate (or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is 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>