



- Slim and Low profile (31mm)
- Fanless design,500W 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 active signal and redundant function(option)
- Operating altitude up to 5000 meter (Note.5)
- LED indicator for power on
- · 3 years warranty













Applications

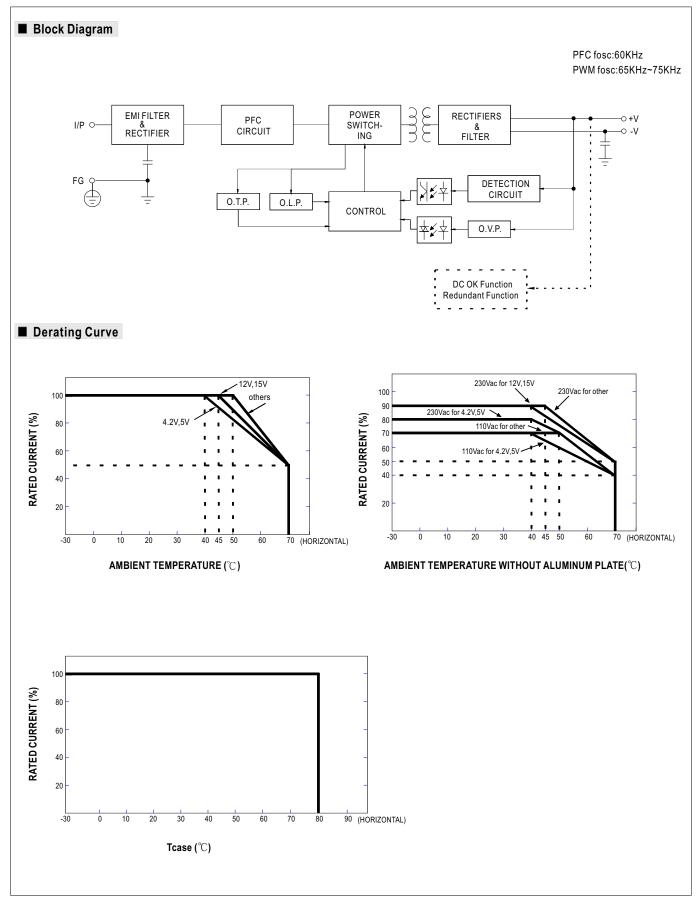
- · Industrial automation machinery
- Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- LED display application



SPECIFICATION

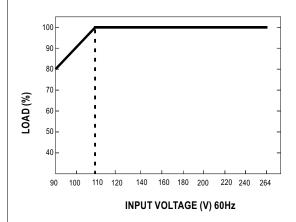
MODEL		UHP-500 -4.2	UHP-500 -5	UHP-500 -12	UHP-500 -15	UHP-500 -24	UHP-500 -36	UHP-500 -48
	DC VOLTAGE	4.2V	5V	12V	15V	24V	36V	48V
	RATED CURRENT	80A	80A	41.7A	33.4A	20.9A	13.9A	10.45A
	RATED POWER	336W	400W	500.4W	501W	501.6W	500.4W	501.6W
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p	360mVp-p	360mVp-p
OUTPUT	VOLTAGE ADJ. RANGE	3.6~4.4V	4.5~5.5V	11.4~12.6V	14.3~15.8V	22.8~25.2V	34.2~37.8V	45.6~50.4V
0011 01	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±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						
	VOLTAGE RANGE Note.4							
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF≥0.95/230V	AC PF≥0.98/	I15VAC at full loa	ıd			
INPUT	EFFICIENCY (Typ.)	89%	90%	94%	94%	94.5%	95%	95%
	AC CURRENT (Typ.)	4.85A/115VAC	2.6A/230VA0)				L
	INRUSH CURRENT (Typ.)	Cold start 30A/115VAC 60A/230VAC						
	LEAKAGE CURRENT	<0.75mA / 240V	AC					
	OVERLOAD	110~140% rated	output power					
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
ROTECTION	OVER VOLTAGE	4.62 ~ 5.46V	5.75 ~ 6.75V	13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	39.6 ~46.8V	52.8 ~ 62.4V
		Protection type :Shut down O/P voltage,re-power on to recover						
	OVER TEMPERATURE	Protection type :Shut down O/P voltage, recovers automatically after temperature goes down						
	DC OK SIGNAL(Optional)	Contact rating(max.):30Vdc/1A resistive load						
FUNCTION REDUNDANT(Optional) For parallel connection protection:For parallel applications, when one PSU can not work, the automatically enabled. This can prevent the system crash, and provide the reliability of system.				ner one will be				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL 62368-1,TUV EN62368-1,EN60335-1, CCC GB4943, BSMI CNS14336-1, EAC TP TC 004 approved;Design refer to EN61558-2-1						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG;0/P-FG:100M Ohms/500VDC/25°C/ 70%RH						
(Note.6)	EMC EMISSION	Compliance to EN55032,GB/T9254,Class B, EN61000-3-2,-3, BSMI CNS13438, EAC TP TC 020						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11;EN61000-6-2 (EN50082-2), heavy industry level ,criterial A,EAC TP TC 020						
	MTBF	168K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	232*81*31mm (L*W*H)						
	PACKING	0.905kg; 16pcs/	15.48kg/0.82CU	FT				
NOTE	 Ripple & noise are measure Tolerance includes set up t Derating may be needed un The ambient temperature do The power supply is conside that it still meets EMC direct 	ers NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. se are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ncludes set up tolerance, line regulation and load regulation. by be needed under low input voltages. Please check the derating curve for more details. t temperature derating of 3.5°C/1000m is needed for operating altitude greater than 2000m(6500ft) supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed eets EMC directives. For guidance on how to perform these EMC tests, to "EMI testing of component power supplies." (as available on http://www.meanwell.com)						







■ STATIC CHARACTERISTIC

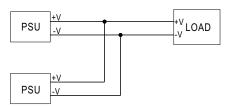


■ DC OK Relay Contact

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

■ Redundant function

- (1) UHP-500R is built-in redundant function and can be connected 2 units in parallel .
- (2) When in parallel operation the maximum load should not be greater than the rated power of any PSU.

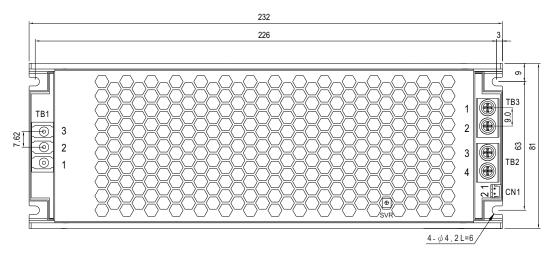


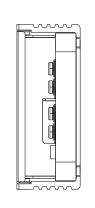


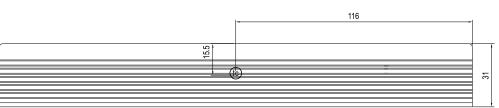
■ Mechanical Specification

CASE NO.:233D

Unit:mm







• (tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

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Pin No.	Assignment	Terminal	Max mounting torque		
1	AC/L	(550001))			
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm		
3	÷	B0200 B 001			

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

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

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

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



■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-500 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-500 series must be firmly mounted at the center of the aluminum plate.

unit:mm

