































Features

- 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
- Power Source Equipment for PoE(55V model)

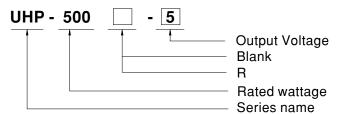
GTIN CODE

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

Description

UHP-500 series is a 500W single-output slim type power supply with 31mm of low profile design. Adopting the full range 90~264VAC input, the entire series provides an output voltage line of 4.2V, 5V,12V,15V,24V,36V,48Vand 55V. 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-500 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,BS EN/EN60335-1, UL 62368-1 and GB 4943.1. UHP-500 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding



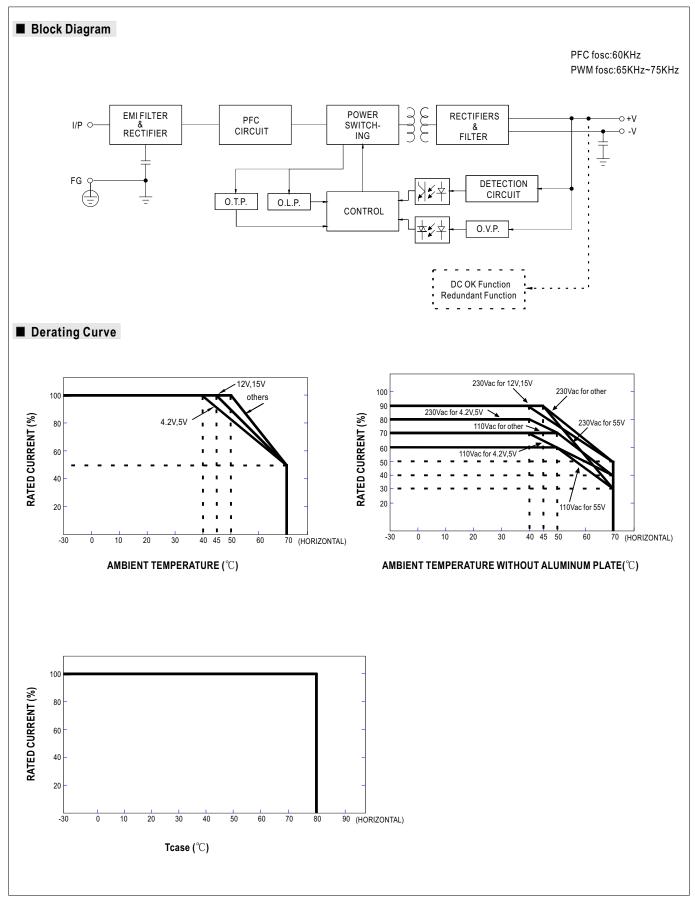
Туре	Description	Note
Blank	Enclosed	In Stock
R	Buit-in DC OK active signal and redundant function.	By request



MODEL		UHP-500 -4.2	UHP-5005	UHP-50012	UHP-50015	UHP-500 -24	UHP-50036	UHP-500 -48	UHP-5005
	DC VOLTAGE	4.2V	5V	12V	15V	24V	36V	48V	55V
	RATED CURRENT	80A	80A	41.7A	33.4A	20.9A	13.9A	10.45A	8.9A
	RATED POWER	336W	400W	500.4W	501W	501.6W	500.4W	501.6W	500W
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p	360mVp-p	360mVp-p	500mVp-p
OUTPUT	VOLTAGE ADJ. RANGE Note.7	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	45~58V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±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%	±0.3%
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms, 50m	s/230VAC; 100	00ms,50ms/11	VAC at full loa	id;550ms/230VA	C for 55V setup	time	
	HOLD UP TIME (Typ.)	12ms/230VAC 12ms/115VAC							
	VOLTAGE RANGE Note.4								
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF≥0.95/230VAC PF≥0.98/115VAC at full load							
INPUT	EFFICIENCY (Typ.)	89%	90%	94%	94%	94.5%	95%	95%	95%
	AC CURRENT (Typ.)	4.85A/115VA	C 2.6A/230	OVAC			1	1	1
	INRUSH CURRENT (Typ.)Note9								
	LEAKAGE CURRENT	<0.75mA/240VAC							
	OVERLOAD	110~140% rat	ed output pow	er					
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
ROTECTION		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	60 ~ 69V
NO 12011011	OVER VOLTAGE	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)								
FUNCTION	REDUNDANT(Optional)	For parallel connection protection:For parallel applications, when one PSU can not work, the another one will be automatically enabled. This can prevent the system crash, and provide the reliability of system							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
NVIRONMENT	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 &	SAFETY STANDARDS	UL 62368-1,TUV BS EN/EN62368-1,BS EN/EN60335-1(Except for 55V), BS EN/EN61558-1,BS EN/EN61558-2-16, GB 4943.1, BSMI CNS15598-1, EAC TP TC 004 approved;Design refer to AS/NZS 61558.1/2.16, AS/NZS 62368.1							
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC I/P-G:2KVAC I/P-G:1.25KVAC I/P-G:							
Note.6)									
	EMC EMISSION	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25°C / 70%RH Compliance to BS EN/EN55032,GB17625.1,GB/T 9254.1,Class B, BS EN/EN61000-3-2,-3, BSMI CNS15936, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11;BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level ,EAC TP TC 020							
	MTBF	1264.1 K hrs min. Telcordia SR-332 (Bellcore); 167.6K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	232*81*31mm (L*W*H)							
	PACKING	0.905kg; 16pcs/15.48kg/0.82CUFT							
NOTE	All parameters NOT special Ripple & noise are measure Tolerance :includes set up t Derating may be needed un	cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Sup tolerance, line regulation and load regulation. I under low input voltages. Please check the derating curve for more details. The derating of 3.5°C/1000m is needed for operating altitude greater than 2000m(6500ft)							

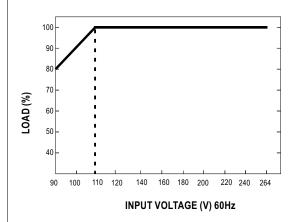
- 7. Please refer to derating currve.
- 8. R type efficiency slightly less than the Blank type, according to the actual measurement.
- 9. Inrush current parameter has 10% tolerance.
- 10. RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







■ STATIC CHARACTERISTIC

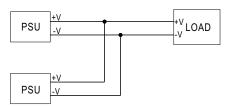


■ DC OK Relay Contact

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.



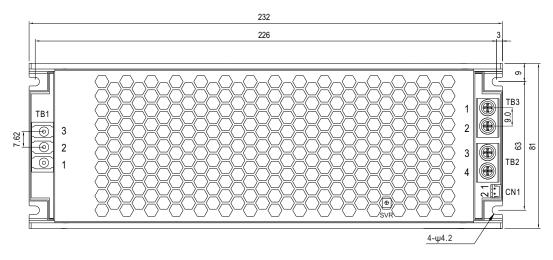


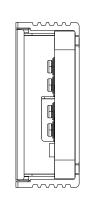
■ Mechanical Specification

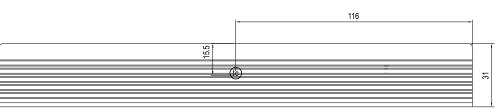
CASE NO.:233D

Unit:mm

Tolerance:±1







• (tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

7.10put 10u.(12.1) p1101.1001.g						
Pin No.	Assignment	Terminal	Max mounting torque			
1	AC/L	(550001))				
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm			
3	÷					

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

