

























Features

- Slim and Low profile (31mm)
- · Fanless design,500W convection
- · Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- 150% peak load capability(100ms)
- -20~+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







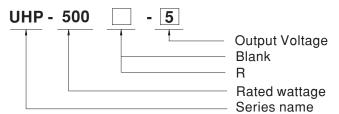
Applications

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

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 and 48V. In addition to the high efficiency up to 95%, that the whole series operates from -20°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 EN60950-1, UL60950-1 and GB4943. UHP-500 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding



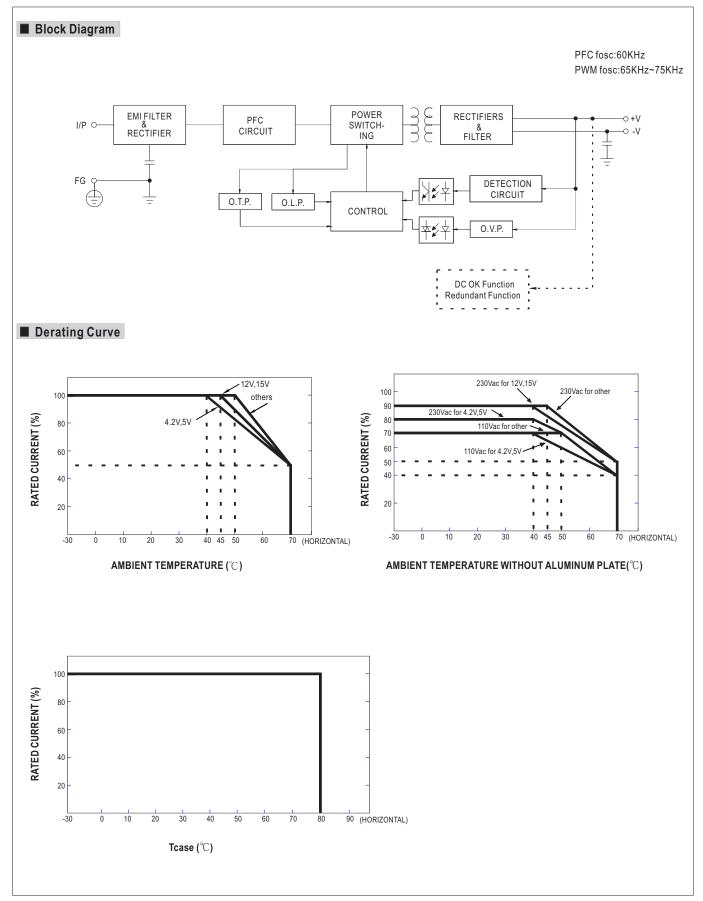
Туре	Description	Note
Blank	Enclosed	In Stock
R	Buit-in DC OK active signal and redundant function.	By request



SPECIFICATION

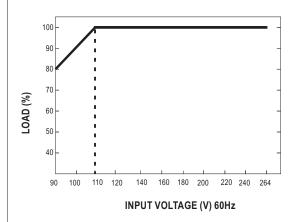
MODEL		UHP-500 -4.2	UHP-500 -5	UHP-500 -12	UHP-500 -15	UHP-500 -24	UHP-500 -36	UHP-500 -48
	DC VOLTAGE	4.2V	5V	12V	15V	24V	36V	48V
	RATED CURRENT	80A	80A	41.7A	33.4A	20.9A	13.9A	10.45A
	RATED POWER	336W	400W	500.4W	501W	501.6W	500.4W	501.6W
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	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/2	230VAC 10)00ms,50ms/115	VAC at full load			
	HOLD UP TIME (Typ.)	12ms/230VAC	12ms/115VAC	2				
	VOLTAGE RANGE Note.4							
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)		AC PF≥0.98/	115VAC at full loa	nd			
INPUT	EFFICIENCY (Typ.)	89%	90%	94%	94%	94.5%	95%	95%
INFUI	AC CURRENT (Typ.)	4.85A/115VAC	2.6A/230VA(0170	01.070	0070	0070
	INRUSH CURRENT (Typ.)	Cold start 30A/115VAC 60A/230VAC 60A/230VAC						
	LEAKAGE CURRENT	<0.75mA / 240V						
			-					
	OVERLOAD	110~140% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed						
		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
ROTECTION	OVER VOLTAGE			1		20.4 ~ 31.20	39.0 ~40.00	32.0 ~ 62.4 V
	OVER TEMPERATURE	Protection type: Shut down O/P voltage,re-power on to recover						
	DC OK SIGNAL(Optional)	Protection type :Shut down O/P voltage, recovers automatically after temperature goes down Contact rating(max.):30Vdc/1A resistive load						
FUNCTION	DC OK SIGNAL(Optional)		,					
TONOTION	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	-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 STANDARDS	UL60950-1,TUV EN60950-1, CCC GB4943, BSMI CNS14336-1, EAC TP TC 004 approved; Design refer to EN60335-1,EN61558-2-16						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC						
EMC (X)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/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	IFT				
NOTE	Ripple & noise are measure Tolerance :includes set up t Derating may be needed ur The ambient temperature de The power supply is conside that it still meets EMC direct	ecially 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. up tolerance, line regulation and load regulation. d under low input voltages. Please check the derating curve for more details. re derating of 3.5°C/1000m is needed for operating altitude greater than 2000m(6500ft) nsidered a component which will be installed into a final equipment. The final equipment must be re-confirmed lirectives. For guidance on how to perform these EMC tests, ting of component power supplies." (as available on http://www.meanwell.com)						







■ STATIC CHARACTERISTIC

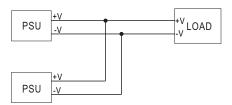


■ DC OK Relay Contact

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.

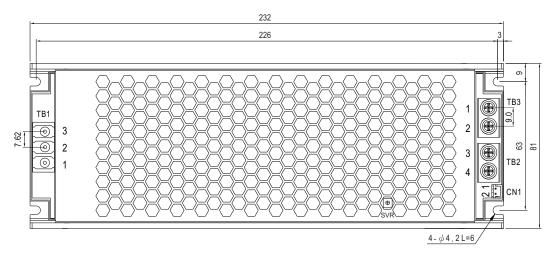


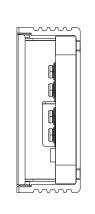


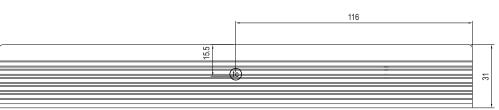
■ Mechanical Specification

CASE NO.:233D

Unit:mm







• (tc) : Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

7.6 mpat formulai(121) pin 140.7 toolgimlont					
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 N	lo. Assigi	nment Ter	minal Max mounting torque
1,2		V (N	IW)
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

