























■ Features

- Slim and Low profile (26mm)
- Fanless design,200W convection
- Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- 150% peak load capability(100ms)
- -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

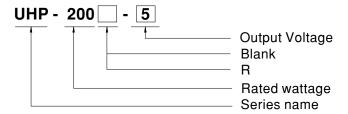
Applications

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

Description

UHP-200 series is a 200W single-output slim type power supply with 26mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V and 48V. In addition to the high efficiency up to 94%, that the whole series operates from $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$ under air convection without fan. UHP-200 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV EN60950-1, EN60335-1, UL60950-1 and GB4943. UHP-200 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding



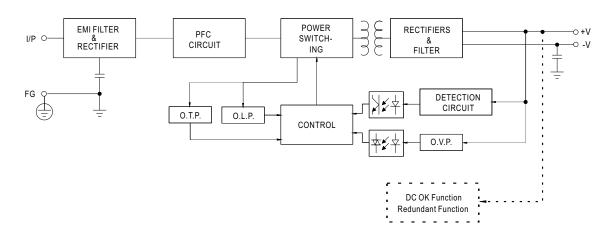
Туре	Description	Note
Blank	Enclosed	In Stock
R	Built-in DC OK active signal and redundant function.	In Stock

SPECIFICATION

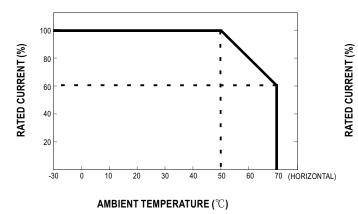
MODEL		UHP-2003.3	UHP-2004.2	UHP-2005	UHP-20012	UHP-200□-15	UHP-20024	UHP-20036	UHP-20048	
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V	
	RATED CURRENT	40A	40A	40A	16.7A	13.4A	8.4A	5.6A	4.2A	
	RATED POWER(convection)	132W	168W	200W	200.4W	201W	201.6W	201.6W	201.6W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	240mVp-p	240mVp-p	240mVp-p	240mVp-p	300mVp-p	
	VOLTAGE ADJ. RANGE	3.2~3.5V	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	
OUTPUT	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	2000ms, 80ms/230VAC 3000ms, 80ms/115VAC at full load								
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC								
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≥0.94/230VA	C PF≥0.98/11	5VAC at full load						
INPUT	EFFICIENCY (Typ.)	89%	90%	91%	93%	94%	94%	94%	94%	
	AC CURRENT (Typ.)	2.2A/115VAC	1.1A/230VAC	<u> </u>						
	INRUSH CURRENT (Typ.)	Cold start 40A/115VAC 80A/230VAC								
	LEAKAGE CURRENT	<0.75mA / 240VAC								
		110~140% rated	output power							
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION		3.8~ 4.6V	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	
	OVER VOLTAGE	Protection type :	Shut down O/P vo	Itage,re-power	on to recover					
	OVER TEMPERATURE	Protection type :	Shut down O/P vo	Itage, recovers	automatically afte	r temperature go	es down			
	DC OK SIGNAL(Optional)	Contact rating(m	ax.):15Vdc/10mA	resistive load						
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 ~ 90% RH non-condensing								
ENVIRONMENT	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,EN60335-1, CCC GB4943, EAC TP TC 004 approved,Design refer to EN61558-1,-2-16								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC								
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25°C/ 70%RH								
EMC (Note.6)	EMC EMISSION	Compliance to EN55032,GB9254,Class B, EN55014,EN61000-3-2,-3,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								
OTHERS	MTBF	257K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	194*55*26mm (L*W*H)								
	PACKING	0.468kg;24pcs/12.2kg/0.49CUFT								
NOTE	Ripple & noise are measured Tolerance :includes set up tole Derating may be needed unde The ambient temperature dera The power supply is considere	parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. ole & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. erance :includes set up tolerance, line regulation and load regulation. ating may be needed under low input voltages. Please check the derating curve for more details. ambient temperature derating of 5 /1000m is needed for operating altitude greater than 2000m(6500ft) power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets C directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.anwell.com)								

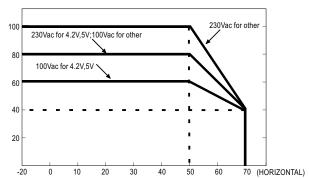


■ Block Diagram

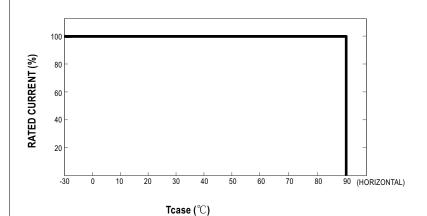


■ Derating Curve



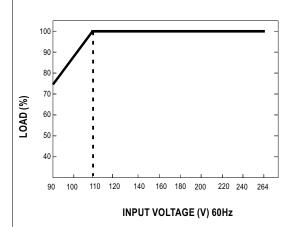


AMBIENT TEMPERATURE WITHOUT ALUMINUM PLATE(°C)





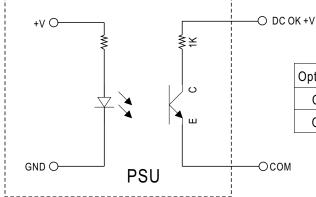
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

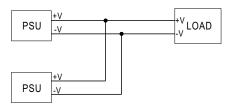
 $DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below. \\$



Optocoupler C-E Pin Conduction	PSU turns on DC ok		
Optocoupler C-E Pin Open	PSU turns off DC fai		
Optocoupler Rating(max.)	15Vdc/10mA resistive load		

2.Redundant function

- (1) UHP-200R 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.

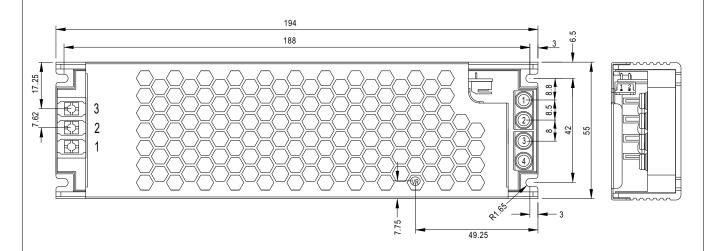


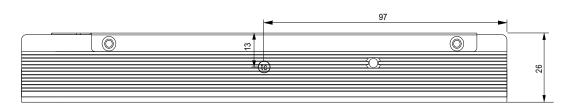


■ Mechanical Specification

CASE NO.:249B

B Unit:mm





• (tc): Max. Case Temperature

AC Input Terminal (TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(DE000N)	
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm
3	늘	D 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

DC OK Connector(CN10):JST B2B-PH-K-S or requivalent

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Pin No.	Assignment	Mating Housing	Terminal		
1	DC COM	JST PHR-2	JST SPH-002T-P0.5S		
2	DC OK +V	or requivalent	or requivalent		

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

Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	TB-HTP-200-40A	8Kgf-cm



■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-200 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-200 series must be firmly mounted at the center of the aluminum plate.

