



































### Features

- · Slim and Low profile (26mm)
- · Fanless design,200W 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
- Household appliances
- · LED display application
- Power Source Equipment for PoE(55V model)

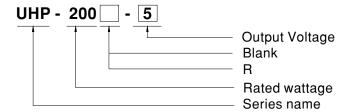
### **■** GTIN CODE

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

### 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,48V and 55V . In addition to the high efficiency up to 94%, that the whole series operates from  $-30^{\circ}$ C  $\sim$   $70^{\circ}$ 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 BS EN/EN62368-1,BS EN/EN60335-1,UL 62368-1 and GB 4943.1. UHP-200 series serves as a high performance power supply solution for various industrial applications.

## ■ Model Encoding



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

### 200W Slim Type with PFC Switching Power Supply

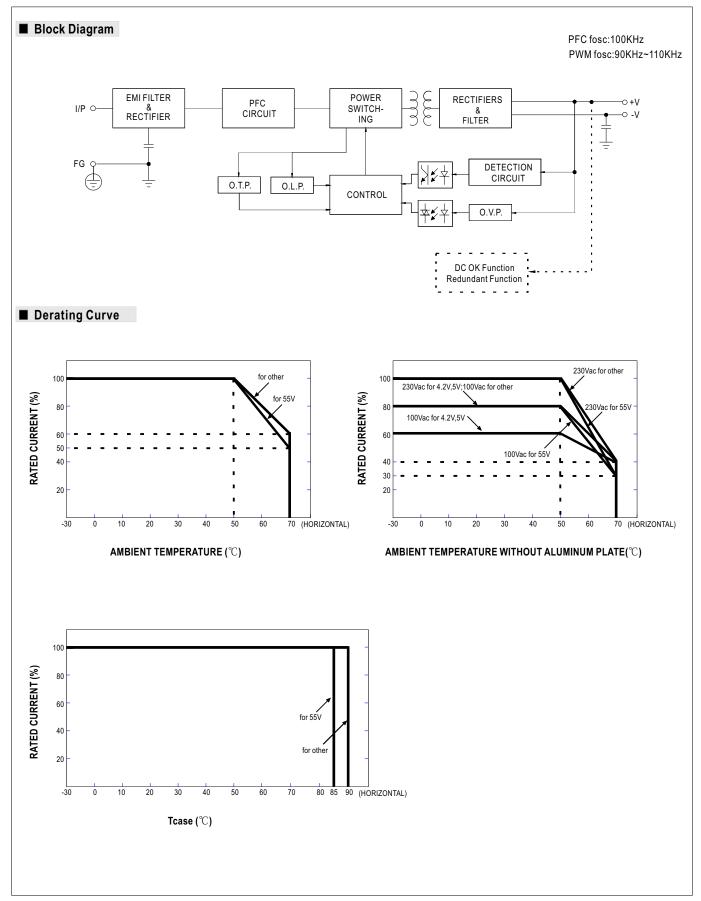
# UHP-200 series

MODEL		UHP-200□-3.3	UHP-2004.2	UHP-2005	UHP-20012	UHP-200 ☐-15	UHP-20024	UHP-200□-36	UHP-200 -48	UHP-200
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V	55V
	RATED CURRENT	40A	40A	40A	16.7A	13.4A	8.4A	5.6A	4.2A	3.6A
	RATED POWER	132W	168W	200W	200.4W	201W	201.6W	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	360mVp-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	45~58V
DUTPUT	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±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%	±0.3%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	2000ms, 80ms/230VAC; 3000ms, 80ms/115VAC at full load;550ms/230VAC for 55V setup time								
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC								
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370\	/DC						
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≥0.94/230VAC PF≥0.98/115VAC at full load								
NPUT	EFFICIENCY (Typ.)	89%	90%	91%	93%	94%	94%	94%	94%	94%
	AC CURRENT (Typ.)	2.2A/115VAC 1.1A/230VAC								
ŀ	INRUSH CURRENT (Typ.)Note.8									
	LEAKAGE CURRENT	<0.75mA / 240	VAC							
		110~140% rate	ed output powe	r						
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION		3.8~ 4.6V		5.75 ~ 6.75V				39.6 ~46.8V	52.8 ~ 62.4V	60 ~ 69V
	OVER VOLTAGE			P voltage,re-po			1	1	1	1
	OVER TEMPERATURE	Protection type: Shut down O/P voltage or Hiccup mode, recovers automatically after temperature goes down								
	DC OK SIGNAL(Optional)	Contact rating(max.):15Vdc/10mA resistive load								
FUNCTION	REDUNDANT(Optional)	For parallel connection: 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								
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	UL 62368-1,TUV BS EN/EN62368-1,BS EN/EN60335-1(Except for 55V), GB 4943.1, EAC TP TC 004, KC62368-1(only for UHP-200-24), BIS IS13252(Part1): 2010/IEC 60950-1: 2005(NOTE 10), BS EN/EN61558-1,BS EN/EN61558-2-16,BSMI CNS15598-1 approved								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC								
EMC Note.6)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25°C / 70%RH								
(	EMC EMISSION	Compliance to BS EN/EN55032,GB17625.1,GB/T 9254.1,Class B, BS EN/EN55014,BS EN/EN61000-3-2,-3, EAC TP TC 020,BSMI CNS15936								
	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								
OTHERS	MTBF	2472.1 K hrs min. Telcordia SR-332 (Bellcore); 257.0 K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	194*55*26mm (L*W*H)								
	PACKING	0.468kg;24pcs/12.2kg/0.49CUFT								

- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 5. The ambient temperature derating of  $5^\circ \! \mathbb{C}/1000 m$  is needed for operating altitude greater than 2000 m (6500 ft)
- 6. The 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 EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 7. R type efficiency slightly less than the Blank type, according to the actual measurement.
- 8. Inrush current parameter has 10% tolerance.
- 9. RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.
- 10. Some models or factory may not have the BIS marking, please contact MEAN WELL's sales for more details.
- XX Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

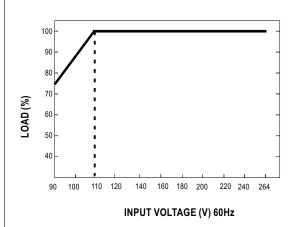
Downloaded from Arrow.com.







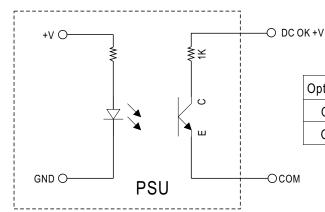
### ■ STATIC CHARACTERISTIC



### ■ Function Manual

### 1.DC\_OK Signal

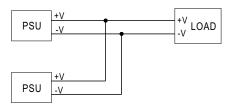
 $\label{eq:DCOK} DC\_OK \ is \ a \ collector \ shorted \ signal. \ It \ is \ used \ by \ an \ optocoupler \ in \ the \ power \ supply \ which \ indicates \ the \ output \ status \ of \ the \ power \ supply \ as \ exhibited \ below.$ 



Optocoupler C-E Pin Conduction	PSU turns on DC ok		
Optocoupler C-E Pin Open	PSU turns off DC fail		
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.



File Name: UHP-200-SPEC 2025-08-01



# CASE NO.:249B Unit:mm Tolerance:±1

• (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	B 0 2 0 0 B 0 0 1	

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

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

### 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

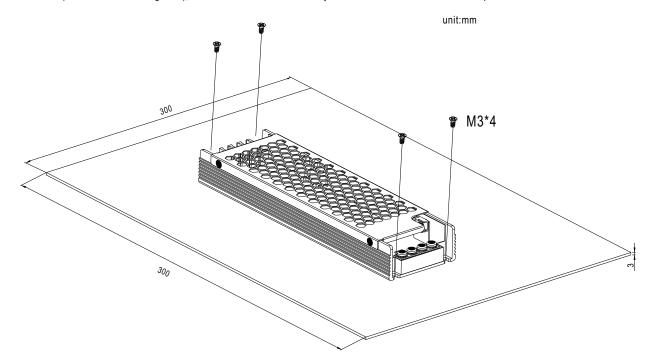
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### ■ Installation

### 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.



File Name:UHP-200-SPEC 2025-08-01