





































#### 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

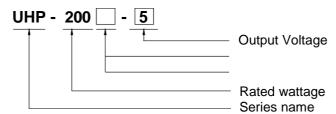
MW Search: https://www.meanwell.com/serviceGTIN.aspx

## Description

UHP-200-5 is a 200W single-output slim type power supply with 26mm of low profile design. Adopting the full range 90~264VAC input.

In addition to the high efficiency up to 94%, that the whole series operates from -30°C  $\sim$  70°C under air convection without fan. UHP-200-5 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-200-5 serves as a high performance power supply solution for various industrial applications.

## **■** Model Encoding

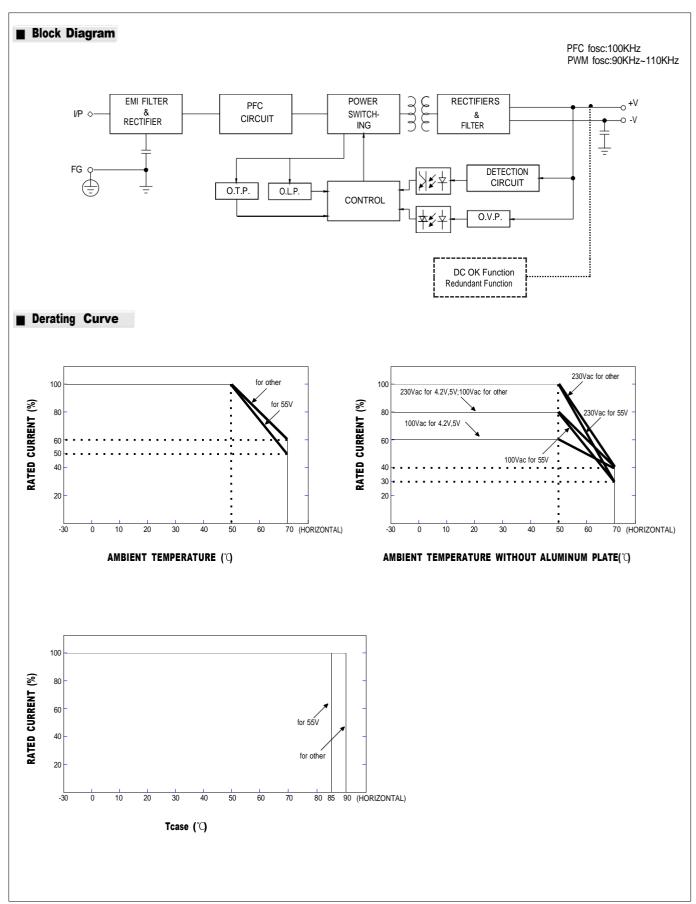




MODEL		UHP-200-5
	DC VOLTAGE	5V
	RATED CURRENT	40A
	RATED POWER	200W
-	RIPPLE & NOISE (max.) Note.2	200mVp-p
	VOLTAGE ADJ. RANGE	4.5~5.5V
DUTPUT	VOLTAGE TOLERANCE Note.3	±2.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±1.0%
	SETUP, RISE TIME	2000ms, 80ms/230VAC; 3000ms, 80ms/115VAC at full load;550ms/230VAC for 55V setup time
•	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC
•	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF≥0.94/230VAC PF≥0.98/115VAC at full load
NPUT	EFFICIENCY (Typ.)	91%
ļ	AC CURRENT (Typ.)	2.2A/115VAC 1.1A/230VAC
-	INRUSH CURRENT (Typ.)Note.8	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		5.75 ~ 6.75V
	OVER VOLTAGE	Protection type :Shut down O/P voltage,re-power on to recover
=	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 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
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 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),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
(Note.6)	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
	MTBF	2472.1 K hrs min. Telcordia SR-332 (Bellcore) ; 257.0K hrs min. MIL-HDBK-217F (25℃)
OTHERS	DIMENSION	194*55*26mm (L*W*H)
-	PACKING	0.468kg;24pcs/12.2kg/0.49CUFT

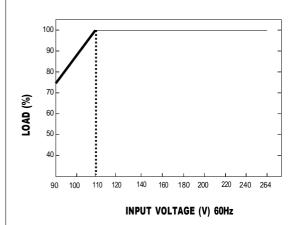
- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 5. The ambient temperature derating of  $5\,^\circ\!\!\!\mathrm{C}/1000m$  is needed for operating altitude greater than 2000m(6500ft)
- 6. The power supply is considered a component which will be 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.
- ${\it \% Product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx}$







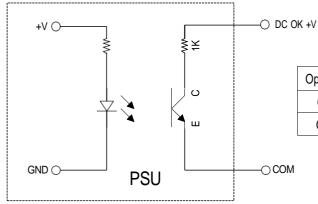
# ■ STATIC CHARACTERISTIC



## **■** Function Manual

## 1. DC\_OK Signal

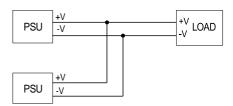
DC\_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below.



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

### 2. Redundant function

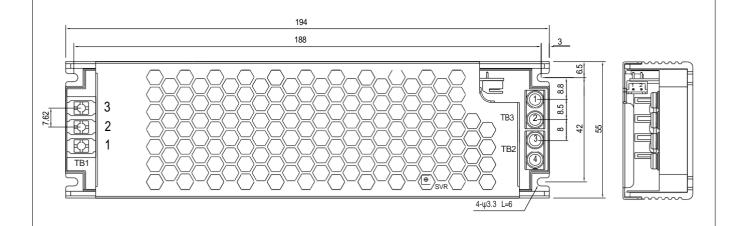
- (1) UHP-200R is built-in redundant function and can be connected 2 units in parallel .
- (2) When in parallel operation the maximum load should not be greater than the rated power of any PSU.

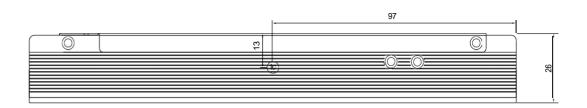


# **■** Mechanical Specification

CASE NO.:249B

Unit:mm





• 🕦 : Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(=====:::	
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm
3	<del>-</del>	D0200 B 001	-

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

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

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

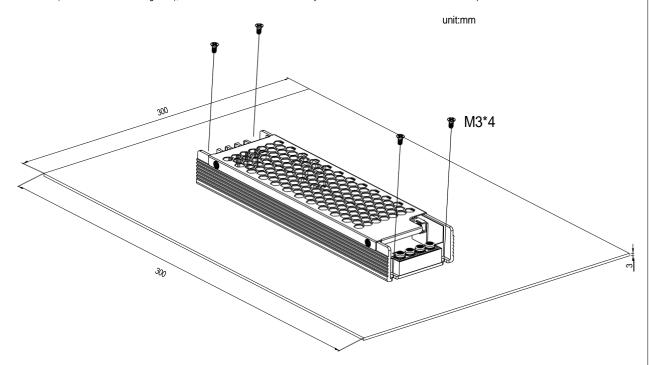
Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	TB-HTP-200-40A	8Kgf-cm



# ■ 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.



Get more info to : <a href="https://www.led-card.com/manufacturer/meanwell/">https://www.led-card.com/manufacturer/meanwell/</a>