

































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)

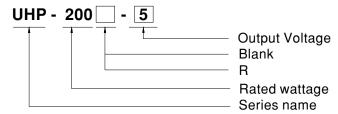
■ GTIN CODE

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° C \sim 70° 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

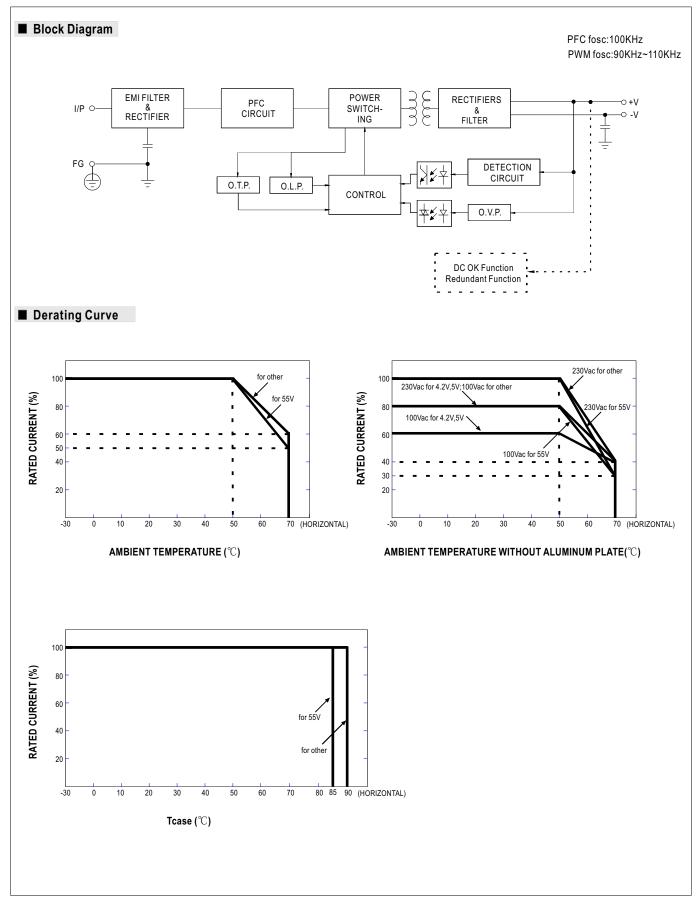
200W Slim Type with PFC Switching Power Supply

SPECIFICATION

MODEL	ATION				II⊔D_200				UHP-200 -48	
MODEL				_	_					
	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
ОИТРИТ	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
	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; 3000	ms, 80ms/115V	AC at full load;5	50ms/230VAC	for 55V setup tir	me		
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC								
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≥0.94/230°	/AC PF≥0.98	8/115VAC at full	load					
INPUT	EFFICIENCY (Typ.)	89%	90%	91%	93%	94%	94%	94%	94%	94%
	AC CURRENT (Typ.)	2.2A/115VAC	1.1A/230V/	AC						•
	INRUSH CURRENT (Typ.)Note.8	Cold start 40A	V115VAC 8	0A/230VAC						
	LEAKAGE CURRENT	<0.75mA / 240	OVAC							
		110~140% rate	ed output powe	r						
	OVERLOAD	Protection typ	e : Hiccup mod	e, recovers auto	matically 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	60 ~ 69V
	OVER VOLTAGE	Protection typ	e :Shut down O	ı √P voltage,re-po	ower on to reco	/er				
	OVER TEMPERATURE	Protection type :Shut down O/P voltage,re-power on to recover 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 ca enabled. This can prevent the system crash, and provide the reliability of system.				ne another one	will be automation	cally				
	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),BS EN/EN61558-1,BS EN/EN61558-2-16,BSMI CNS15598-1 approved								
SAFETY &	WITHSTAND VOLTAGE									
EMC	ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC								
(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/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°C)								
OTHERS	DIMENSION	194*55*26mm (L*W*H)								
ļ	PACKING	0.468kg;24pcs/12.2kg/0.49CUFT								
	 Ripple & noise are measure Tolerance :includes set up t Derating may be needed un The ambient temperature d The power supply is considing it still meets EMC directives (as available on https://www R type efficiency slightly les Inrush current parameter has 	T specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. s set up tolerance, line regulation and load regulation. eeded under low input voltages. Please check the derating curve for more details. erature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft) is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." typs://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) lightly less than the Blank type, according to the actual measurement. ameter has 10% tolerance. ry basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.								

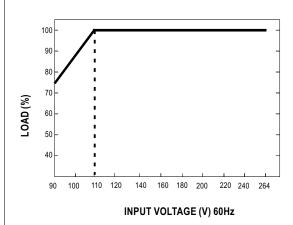
% Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







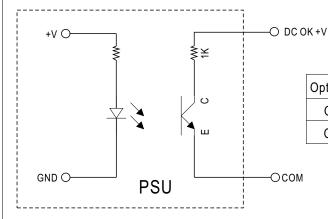
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

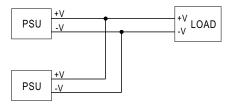
 $\label{eq:DCOK} DC_OK \ is \ a \ collector \ shorted \ signal. \ It \ is \ used \ by \ an \ optocoupler \ in \ the \ power \ supply \ which \ indicates \ the \ output \ status \ of \ the \ power \ supply \ as \ exhibited \ below.$



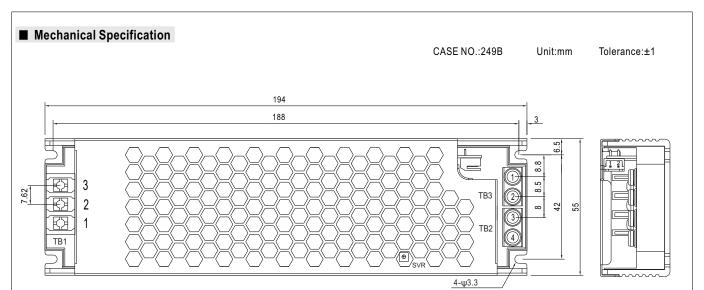
Optocoupler C-E Pin Conduction	PSU turns on	DC ok	
Optocoupler C-E Pin Open	PSU turns off	DC fail	
Optocoupler Rating(max.)	15Vdc/10mA resistive load		

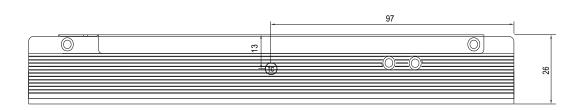
2.Redundant function

- (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.









• (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



■ 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.

