

### UHP-200A series

















#### ■ Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- · Low profile:26mm
- Built-in active PFC function
- · Fanless design, cooling by free air convection
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Low leakage current<1.0mA</li>
- LED indicator for power on
- · 3 years warranty

#### Applications

- LED signage display
- Moving sign
- · LED channel letter
- LED TV wall

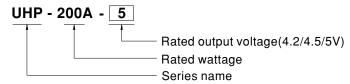
#### GTIN CODE

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

#### Description

UHP-200A series is a 200W LED display power solution. The ultra low profile design that allows the height and weight of the sign module to be slim. It greatly simplifies the delivery and installation process. Accounting for high efficiency and energy saving, the series effectively achieves electricity reduction. It is suitable for LED signage display, moving sign, LED channel letter and LED TV wall etc.

#### ■ Model Encoding







# UHP-200A series

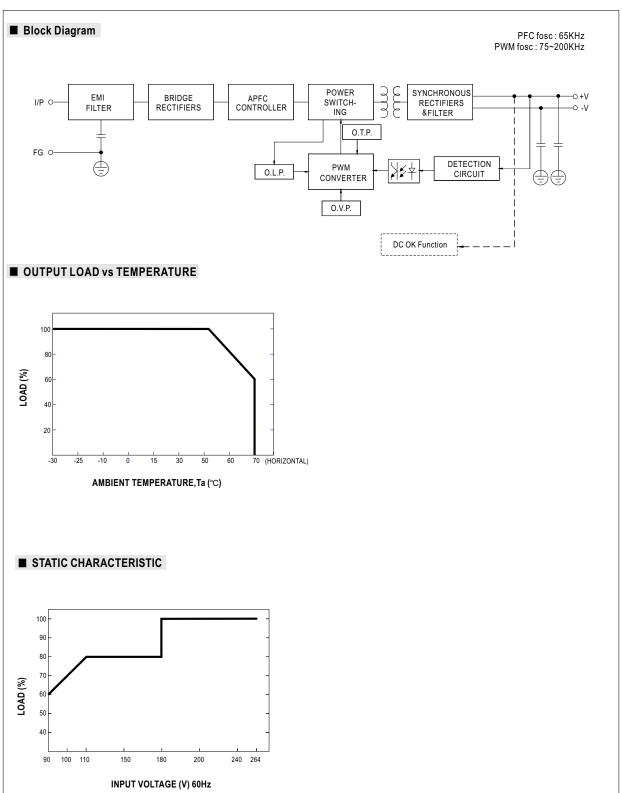
#### **SPECIFICATION**

MODEL		UHP-200A-4.2	UHP-200A-4.5	UHP-200A-5		
	DC VOLTAGE	4.2V	4.5V	5V		
	RATED CURRENT	40A	40A	40A		
	CURRENT RANGE	0~40A	0~40A	0~40A		
	RATED POWER	168W	180W	200W		
	RIPPLE & NOISE(max.) Note.2		200mVp-p	200mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE	4.0~4.4V	4.3~4.7V	4.7~5.3V		
	VOLTAGE TOLERANCE Note.3		±4.0%	±4.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±2.5%	±2.5%	±2.5%		
-	SETUP, RISE TIME	2000ms, 200ms/230VAC at full load,		±2.070		
	HOLD UP TIME (Typ.)	10ms/230VAC 11millioud, 3000ms, 200ms/113VAC at 60 % load				
	DC OK FUNCTION	PSU Turns on:DC ok; PSU turns off:DC fail				
	VOLTAGE RANGE Note.4					
		90 ~ 264VAC 127 ~ 370VDC				
ŀ	FREQUENCY RANGE	47 ~ 63Hz	A			
INPUT	POWER FACTOR (Typ.)	PF≥0.97/115VAC PF≥0.95/230VA		00.5%		
	EFFICIENCY (Typ.)	88%	88%	88.5%		
	AC CURRENT (Typ.)	2.4A/115VAC 1.2A/230VAC				
	INRUSH CURRENT (Typ.)	Cold start 85A/230VAC				
	LEAKAGE CURRENT	<1.0mA/240VAC				
	OVERLOAD	110~140% rated output power				
		Protection type: Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION	SHORT CIRCUIT		ers automatically after fault condition is			
	OVER VOLTAGE	4.6 ~ 6V	5 ~ 6.4V	5.6 ~ 7.1V		
		Protection type: Hiccup mode, recovers automatically after fault condition is removed				
OVER TEMPERATURE Protection type: Shut down O/P voltage, recovers automatically af			• • • • • • • • • • • • • • • • • • • •	ondition is removed		
	WORKING TEMP.	-30 ~ +70°C (Refer to "OUTPUT LOAD vs TEMPERATURE")				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
ENVIRONMENT		-40 ~ +85°C, 10 ~ 95% RH				
	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,CCC GB4943, EAC TP TC 004 approved				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.0KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
EMC (Note.5)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C/70%RH				
	EMC EMISSION Note.8	Compliance to BS EN/EN55032 (CISPR32), GB9254, Class A, BS EN/EN61000-3-2,-3, GB17625.1, EAC TP TC 020				
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11;BS EN/EN55024, light industry level (sui				
0711500	MTBF	1949.0 K hrs min. Telcordia SR-332 (Bellcore); 211.7K hrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	167*55*26mm (L*W*H)				
	PACKING	0.42kg; 20pcs/ 11.4kg/0.76CUFT				
NOTE		meters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  A noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.				
	4. Derating may be needed un	and load regulation.  Inder low input voltages. Please check the static characteristics for more details.				
		easured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.				
<ol> <li>Transient response meansure shall be made with 10% load at least.</li> <li>The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mou a 360mm '360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guiperform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</li> <li>Warnning: This equipment is compliant with Class A of CISPR 32. In a residential environment may cause radio interference.</li> <li>Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>				EMC directives. For guidance on how to meanwell.com) nterference.		





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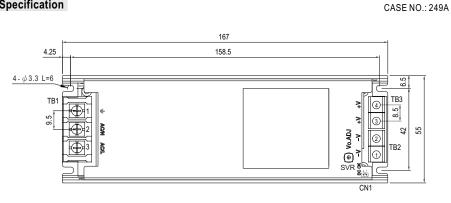
Unit:mm

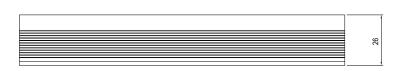


#### 200W Single Output with PFC Function

### UHP-200A series

#### ■ Mechanical Specification





AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(DECA)	
2	AC/N	T14-EM11033703	13Kgf-cm
3	÷	114 211111000700	

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

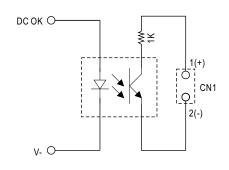
Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	TB-HTP-200-40A	8Kgf-cm

DC OK Connector(CN1):JST B2B-PH-K-S or equivalent

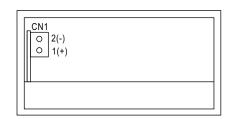
		,	
Pin No.	Assignment	Mating Housing	Terminal
1	DC OK +V	JST PHR-2	JST SPH-002T-P0.5S
2	DC COM	or equivalent	or equivalent

#### ■ Function manual

1.Internal circuit of DC ok



Contact Close	PSU turns on	DC ok
Contact Open	PSU turns off	DC fail
Contact Rating(max.)	10Vdc/1mA	





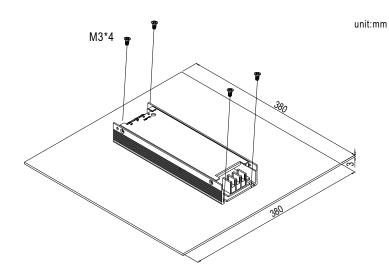


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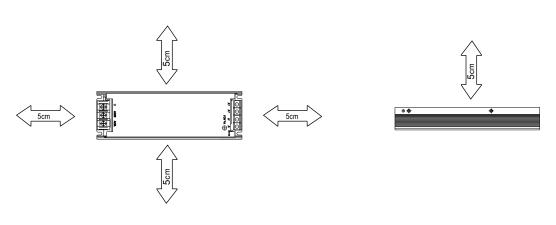
#### ■ Installation

1. Operate with additional aluminum plate

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



2. For heat dissipation, at least 5cm installation distance around the PSU should be kept, shown as below:







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