

<u>UHP-350-5</u>







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Features

- Slim Low profile (31mm)
- · Fanless design,350W 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: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

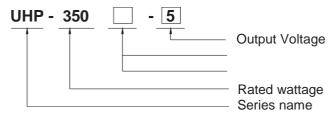
Description

UHP-350-5 is a 350W single-output slim type power supply with 31mm 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- 70°C under air convection without fan. UHP-350 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 GB4943. UHP-350-5 serves as a high performance power supply solution for various industrial applications.

Model Encoding

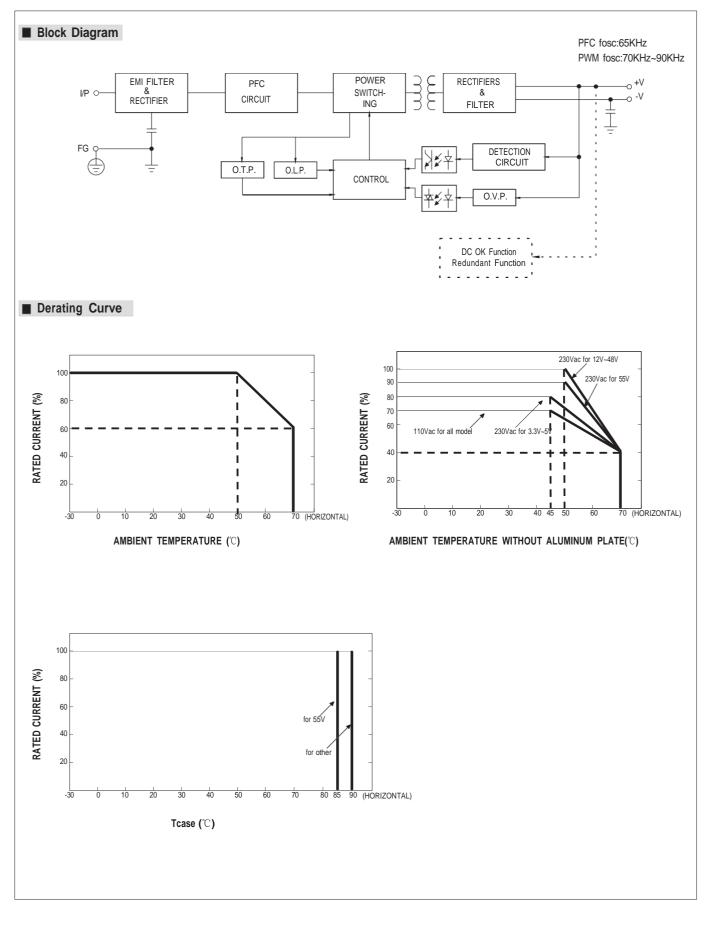




SPECIFICATION			
MODEL		UHP-350-5	
	DC VOLTAGE	5V	
	RATED CURRENT	60A	
	RATED POWER	300W	
	RIPPLE & NOISE (max.) Note.2	200mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE	4.5~5.5V	
	VOLTAGE TOLERANCE Note.3	±2.0%	
	LINE REGULATION	±0.5%	
	LOAD REGULATION	±1.0%	
	SETUP, RISE TIME	2000ms, 80ms/230VAC; 3000ms, 80ms/115VAC 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	
INPUT	EFFICIENCY (Typ.) Note.7	90%	
	AC CURRENT (Typ.)	4A/115VAC 2A/230VAC	
	INRUSH CURRENT (Typ.)Note.8	Cold start 30A/115VAC 60A/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, 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°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 &	SAFETY STANDARDS	UL 62368-1,TUV BS EN/EN62368-1,BS EN/EN60335-1(Except for 55V),BS EN/EN61558-1, BS EN/EN61558-2-16,CCC GB4943,BSMI CNS15598-1,EAC TP TC 004,BIS IS13252(Part1)/IEC60950- (except for 4.2V、15V、48V、55V) approved,Design refer to AS/NZS 61558.1/2.16,AS/NZS 62368.1	
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC	
(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,GB9254,Class B, BS EN/EN55014,BS EN/EN61000-3-2,-3, BSMI CNS15936, EAC TP TC 020	
	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	1791.2 K hrs min. Telcordia SR-332 (Bellcore) ; 253.4K hrs min. MIL-HDBK-217F (25°C)	
OTHERS	DIMENSION	220*62*31mm (L*W*H)	
	PACKING	0.68 kg;16 pcs/11.88 kg/0.63CUFT	
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance :includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) 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 http://www.meanwell.com) Only for Blank type, R type efficiency slightly less than the Blank type. Inrush current parameter has 10% tolerance. RCM is on voluntary 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 		

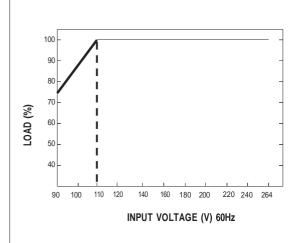


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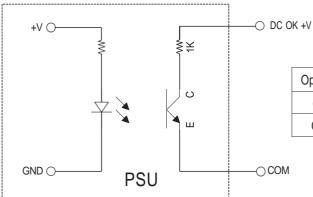
STATIC CHARACTERISTIC



Function Manual

1. DC_OK Signal

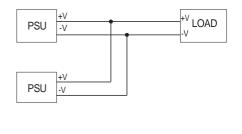
DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below.



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	Vdc/10mA resistive load	

2. Redundant function

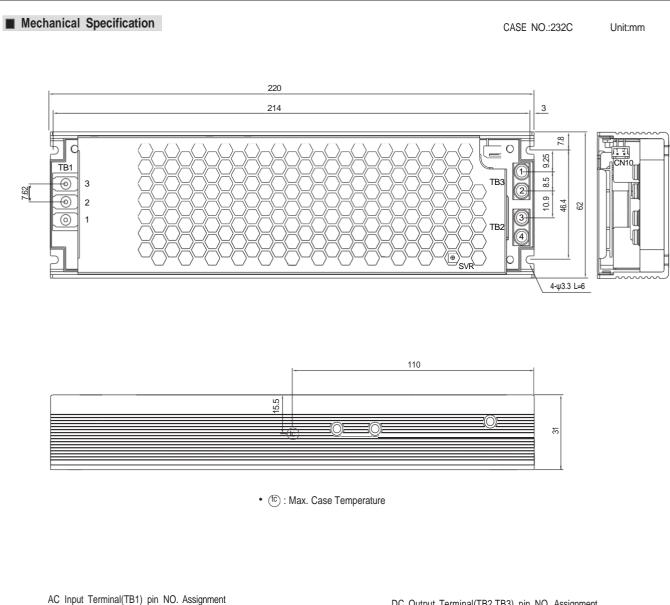
(1) UHP-350R is built-in redundant function and can be connected 2 units in parallel .(2) When in parallel operation the maximum load should not be greater than the rated power of any PSU.





350W Slim Type with PFC Switching Power Supply

<u>UHP-350-5</u>



AC Input Terminai(TBT) pin NO. Assignment				
Assignment	Terminal	Max mounting torque		
AC/L	(050000))	5Kgf-cm		
AC/N				
	D0200 D 001			
	Assignment AC/L	Assignment Terminal AC/L (DEGSON)		

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

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

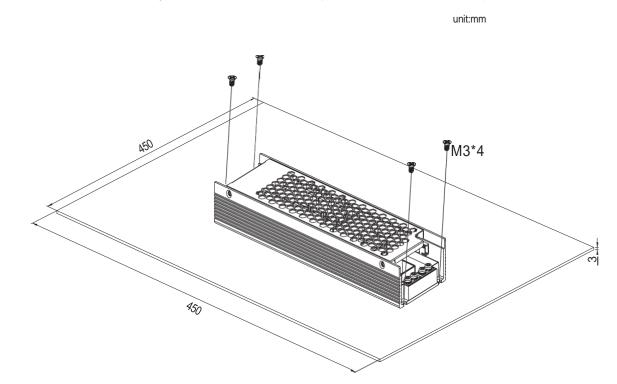
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Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	TB-HTP-200-40A	8Kgf-cm



Installation

1.Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-350 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-350 series must be firmly mounted at the center of the aluminum plate.



Get more info to : https://www.led-card.com/manufacturer/meanwell/