

EEECBC€₩2

UHP-350 series







Features

- Slim Low profile (31mm)
- · Fanless design,350W convection
- · Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- -30~+70 $^\circ\!\mathrm{C}$ 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-350 series is a 350W single-output slim type power supply with 31mm of low profile design. Adopting the full range 90~264VAC 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 $\sim 70^{\circ}$ 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 series as a high performance power supply solution for various industrial applications.

Model Encoding

UHP - 350	- 5	
		 Output Voltage Blank R
		— Rated wattage — Series name

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



SPECIFICATION

MODEL	TION	UHP-350 -3.3	UHP-350 -4.2	UHP-350 -5	UHP-350 -12	UHP-350 -15	UHP-35024	UHP-350 -36	UHP-350 -48	UHP-350
-	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V	55V
OUTPUT	RATED CURRENT	60A	4.2 V 60A	60A	29.2A	23.4A	14.6A	9.75A	7.3A	6.3A
	RATED POWER	198W	252W	300W	350.4W	351W	350.4W	351W	350.4W	350W
			150mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p	240mVp-p	240mVp-p	300mVp-p
	. ,	150mVp-p	3.6~4.4V	4.5~5.5V		14.3~15.8V	22.8~25.2V	34.2~37.8V	45.6~50.4V	45~58V
	VOLTAGE ADJ. RANGE	3.2~3.5V ±2.0%		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	VOLTAGE TOLERANCE Note.3		±2.0%					±0.3%		
		±0.5% ±1.0%	±0.5%	±0.5%	±0.3% ±0.5%	±0.3% ±0.5%	±0.3%	±0.3%	±0.3% ±0.5%	±0.3%
			±1.0%						10.5%	10.5%
	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 ~ 370VDC									
-	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≥0.94/23	0VAC PF≥	0.98/115VAC a	at full load	T		I	1	1
NPUT	EFFICIENCY (Typ.) Note.7	88.5%	89%	90%	91%	92%	94%	94%	94%	94%
L H	AC CURRENT (Typ.)	4A/115VAC	2A/230VA	C						
	INRUSH CURRENT (Typ.)Note.8	Cold start 30	A/115VAC	60A/230VAC						
	LEAKAGE CURRENT	<0.75mA/24	0VAC							
OVERLOAD PROTECTION OVER VOLTAGE		110~140% ra	ted output pov	wer						
	OVERLOAD	Protection type	be : Hiccup mo	ode, recovers	automatically	after fault con	dition is remov	red		
	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 type	be :Shut down	O/P voltage,r	e-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		H non-conde	• ·						
NVIRONMENT	STORAGE TEMP., HUMIDITY									
	TEMP. COEFFICIENT	±0.03%/°C (0								
-	VIBRATION		,	cle 60min es	uch along X. V	7 2205				
SAFETY &	SAFETY STANDARDS	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes 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 CNS14336-1,EAC TP TC 004 approved, Design refer to AS/NZS 61558.1/2.16,AS/NZS 62368.1								
EMC	WITHSTAND VOLTAGE	//P-O/P:3.75KVAC //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		to BS EN/EN				014,BS EN/E	N61000-3-2,-	-3, BSMI CNS	\$13438,
	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. Telco	rdia SR-332 (Bellcore) ; 253	3.4K hrs min.	MIL-HDBK	-217F (25℃)		
OTHERS	DIMENSION	220*62*31m	m (L*W*H)							
	PACKING	0.68 kg;16 p	cs/11.88 kg/0.	63CUFT						
NOTE	 All parameters NOT specially n Ripple & noise are measured a Tolerance :includes set up toler Derating may be needed under The ambient temperature derat The power supply is considered (as available on http://www.me Only for Blank type, R type effic Inrush current parameter has 1 RCM is on voluntary basis and % Product Liability Disclaimer : F 	t 20MHz of ban rance, line regul low input voltaç ing of 3.5°C/100 d a component v a component v a component v n how to perfor nanwell.com) iency slightly le: 0% tolerance. meets relevant	dwidth by using ation and load ges. Please che 00m with fanles which will be ins m these EMC t ss than the Blar IEC or AS/NZS	g a 12" twisted p regulation. sek the derating s models and o stalled into a fin ests, please ref nk type. s standards corr	air-wire termina curve for more f 5°C/1000m wit al equipment. T er to "EMI testir plying with AS/	ated with a 0.1u details. th fan models fo he final equipm ng of componen NZS 4417.1.	f & 47uf parallel or operating altit ient must be re- it power supplie	ude higher than confirmed that i	,	







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 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

UHP-350 series





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.

