

























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

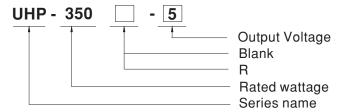
Applications

- · 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)

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 operatesfrom -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 EN62368-1, EN60335-1, UL 62368-1 and GB4943. UHP-350 series serves as a high performance power supply solution for various industrial applications.

Model Encoding



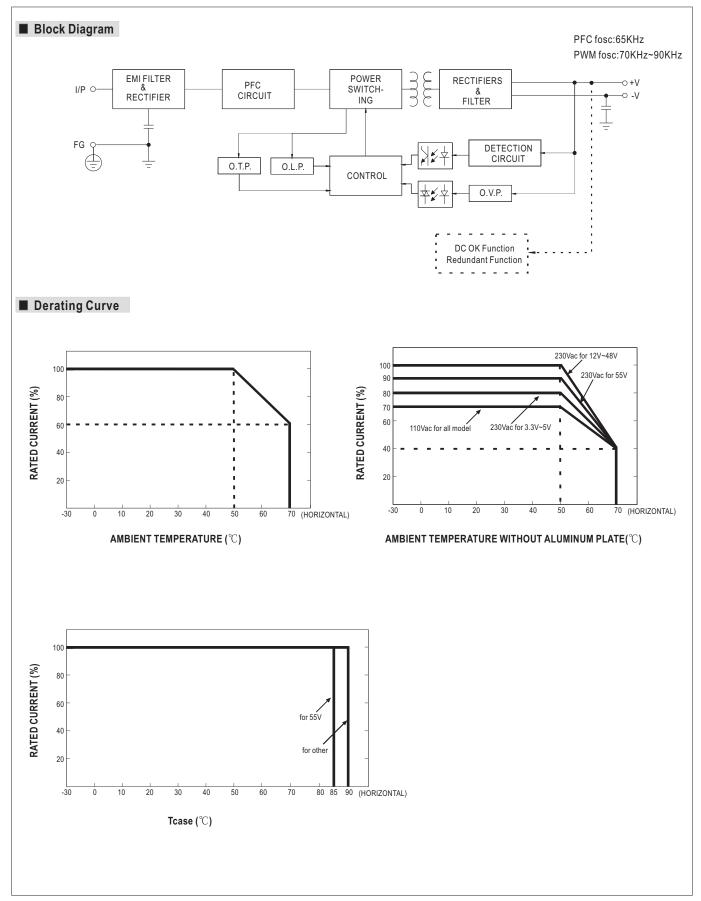
Туре	Description	Note
Blank	Enclosed	In Stock
R	Built-in DC OK active signal and redundant function.	In Stock

SPECIFICATION

8.Inrush current parameter has 10% tolerance.

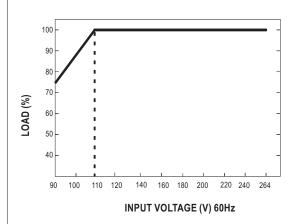
MODEL		UHP-3503.3	UHP-3504.2	UHP-350□-5	UHP-35012	UHP-35015	UHP-35024	UHP-35036	UHP-350□-48	UHP-3505
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V	55V
	RATED CURRENT	60A	60A	60A	29.2A	23.4A	14.6A	9.75A	7.3A	6.3A
	RATED POWER	198W	252W	300W	350.4W	351W	350.4W	351W	350.4W	350W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p	240mVp-p	240mVp-p	300mVp-p
OUTPUT	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; 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	at full load					
NPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	91%	92%	94%	94%	94%	94%
	AC CURRENT (Typ.)	4A/115VAC	2A/230VA	C	II.	1		I.	<u> </u>	
	INRUSH CURRENT (Typ.)Note8	Cold start 30	A/115VAC	60A/230VAC	;					
	LEAKAGE CURRENT	<0.75mA/24	0VAC							
		110~140% rated output power								
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
ROTECTION		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 :Shut down O/P voltage,re-power on to recover							I.	I.	<u> </u>
	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								
NVIRONMENT		✓ -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 EN62368-1,EN60335-1(Except for 55V),CCC GB4943,BSMI CNS14336-1,EAC TP TC 004 approved,Design refer to EN61558-1,-2-16								
	WITHSTAND VOLTAGE	UP-O/P:3.75KVAC								
SAFETY & EMC	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 EN55032,GB9254,Class B, EN55014,EN61000-3-2,-3, BSMI CNS13438, EAC TP TC 020								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11;EN61000-6-2 (EN50082-2), heavy industry level ,criterial A,EAC TP TC 020								
	MTBF	285 K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	220*62*31mm (L*W*H)								
	PACKING	0.68 kg;16 pc	cs/11.88 kg/0.	.63CUFT						
NOTE	All parameters NOT specially Ripple & noise are measured Tolerance :includes set up to Derating may be needed und The ambient temperature de The power supply is conside EMC directives. For guidanc (as available on http://www.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. The detail 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. It tolerance, line regulation and load regulation. It will be read a component with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets not on how to perform these EMC tests, please refer to "EMI testing of component power supplies."								







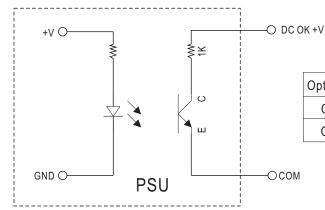
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

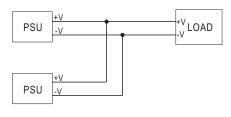
 $DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below. \\$



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

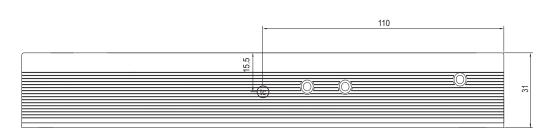
- (1) UHP-350R is built-in redundant function and can be connected 2 units in parallel .
- $(2) When in parallel operation the {\it maximum load should not be greater than the rated power of any PSU}.$



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Mechanical Specification CASE NO.:232C Unit:mm



☐ (tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque		
1	AC/L	(550001))			
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm		
3	÷				

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

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.

unit:mm

