





















■ Features

- Slim Low profile (31mm)
- Fanless design,350W convection
- Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- 150% peak load capability(100ms)
- -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

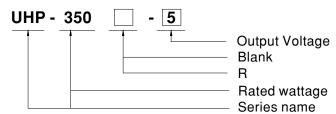
■ Applications

- · Industrial automation machinery
- Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- · Household appliances
- · LED display application

■ Description

UHP-350 series is a 350W single-output slim type power supply with 31mm 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 and 48V. 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 EN60950-1, EN60335-1, UL60950-1 and GB4943. UHP-350 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding

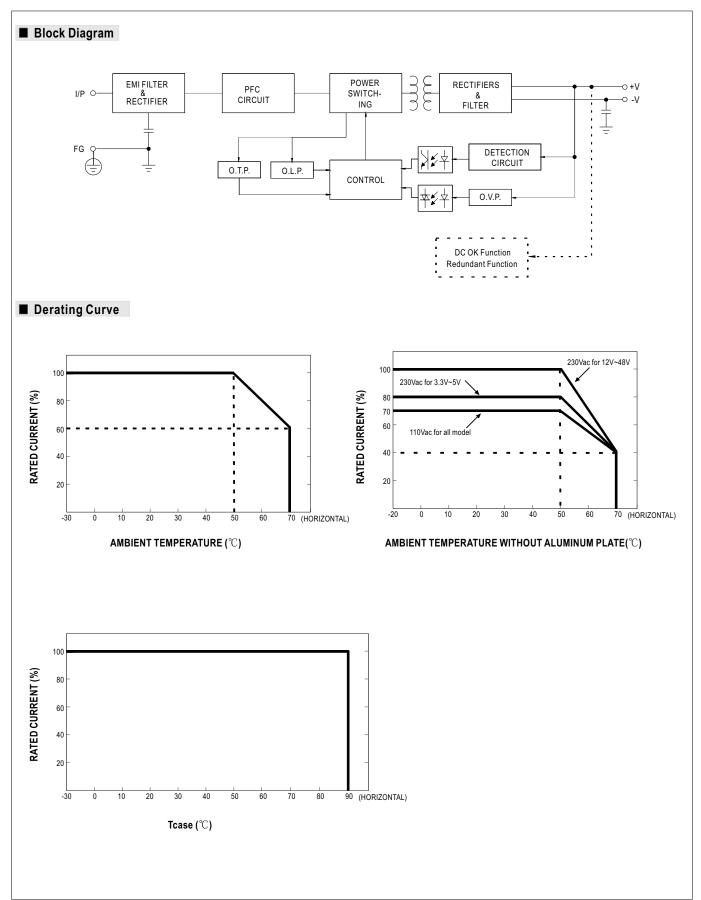


Type	Description	Note
Blank	Enclosed	In Stock
R	Built-in DC OK active signal and redundant function.	In Stock

SPECIFICATION

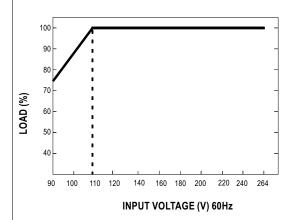
MODEL		UHP-3503.3	UHP-350 -4.2	UHP-3505	UHP-35012	UHP-35015	UHP-35024	UHP-35036	UHP-35048		
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V		
	RATED CURRENT	60A	60A	60A	29.2A	23.4A	14.6A	9.75A	7.3A		
	RATED POWER(convection)	198W	252W	300W	350.4W	351W	350.4W	351W	350.4W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p	240mVp-p	240mVp-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		
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±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%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	2000ms, 80ms/2	2000ms, 80ms/230VAC 3000ms, 80ms/115VAC at full load								
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC									
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≥0.94/230VA	AC PF≥0.98/11	5VAC at full load							
INPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	91%	92%	94%	94%	94%		
	AC CURRENT (Typ.)	4A/115VAC	2A/230VAC						1		
	INRUSH CURRENT (Typ.)	Cold start 30A/115VAC 60A/230VAC									
	LEAKAGE CURRENT	<0.75mA / 240VA	AC								
		110~140% rated	output power								
	OVERLOAD	Protection type: Hiccup mode, recovers automatically 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		
FROILCIION	OVER VOLTAGE	Protection type :Shut down O/P voltage,re-power on to recover									
	OVER TEMPERATURE	Protection type: Shut down O/P voltage, re-power on to recover 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 PSII can not work, the another one will be				will be automatic	ally				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% 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	UL60950-1.TUV EN60950-1.EN60335-1,CCC GB4943, EAC TP TC 004 approved,Design refer to EN61558-1,-2-16									
	WITHSTAND VOLTAGE										
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, 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)									
OTTILING	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. Elipple & 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.neanwell.com)										







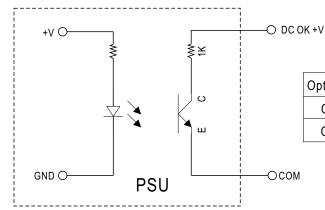
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

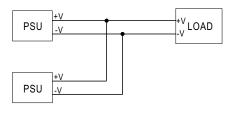
DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below.



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 .
- $(2) When in parallel operation the {\it maximum load should not be greater than the rated power of any PSU}.$

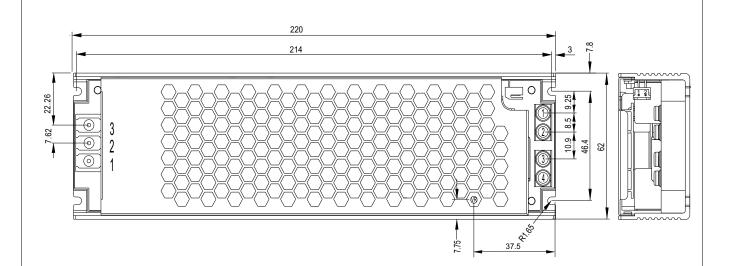


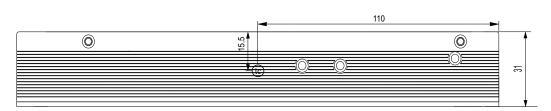


■ Mechanical Specification

CASE NO.:232C

Unit:mm





• tc : Max. Case Temperature

AC Input Terminal (TB1) pin NO. Assignment

7. topata.(2.7) pto						
Pin No.	Assignment	Terminal	Max mounting torque			
1	AC/L	(550001))				
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm			
3	늘					

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

	Pin No.	Assignment	Mating Housing	Terminal
ſ	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

