

























■ 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

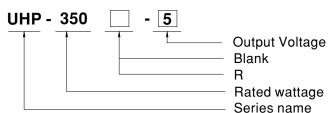
Household Automate Industrial Applications

- · 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 $90\sim264\text{VAC}$ 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 $-30\% \sim 70\%$ 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

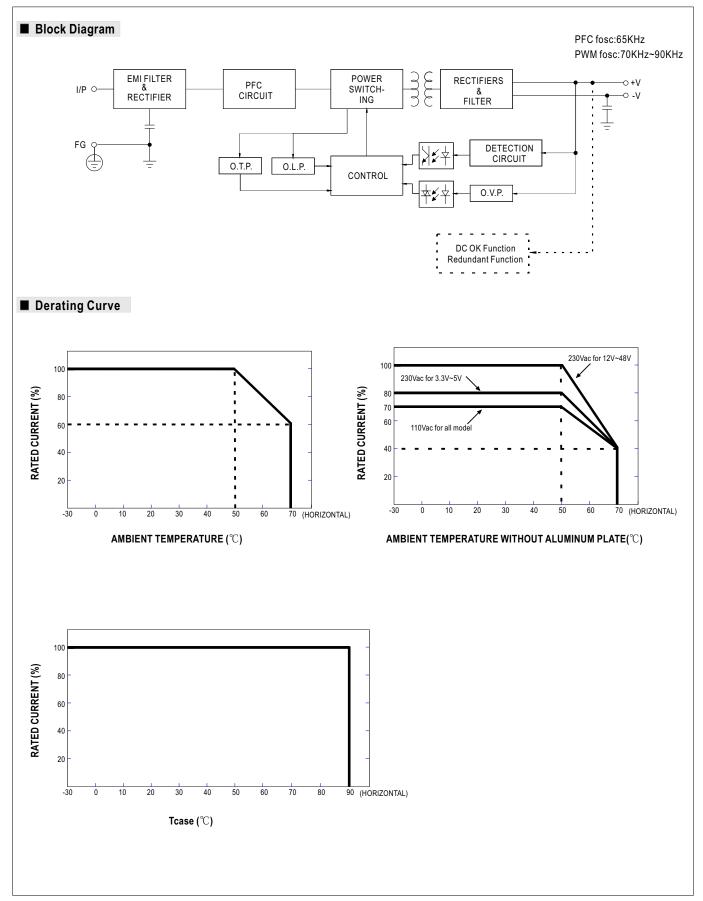


Type	Description	Note
Blank	Enclosed	In Stock
R	Built-in DC OK active signal and redundant function.	In Stock

SPECIFICATION

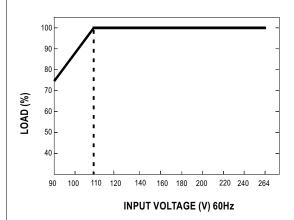
MODEL		UHP-350 □-3.3	UHP-3504.2	UHP-350□-5	UHP-350 □-12	UHP-350 □-15	UHP-350□-24	UHP-350□-36	UHP-350□-48
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V
	RATED CURRENT	60A	60A	60A	29.2A	23.4A	14.6A	9.75A	7.3A
	RATED POWER	198W	252W	300W	350.4W	351W	350.4W	351W	350.4W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	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/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≥0.94/230	VAC PF≥0.98	3/115VAC at fu	ll load				
INPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	91%	92%	94%	94%	94%
	AC CURRENT (Typ.)	4A/115VAC	2A/230VAC						
	INRUSH CURRENT (Typ.)	Cold start 30A/	115VAC 60	A/230VAC					
	LEAKAGE CURRENT	<0.75mA/240	VAC						
	OVEDI GAD	110~140% rate	d output power						
	OVERLOAD	Protection type	: Hiccup mode	, recovers auto	matically after fa	ault condition is I	removed		
PROTECTION	OVED VOLTACE	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
	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				be			
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	r -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						EN61558-1,-2-16		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC							
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;EN	61000-6-2 (EN5	0082-2), heavy	ndustry level ,cr	iterial A,EAC TF	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 pcs	/11.88 kg/0.630	CUFT					
NOTE	Ripple & noise are measured Tolerance :includes set up to Derating may be needed und The ambient temperature de The power supply is conside	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. under low input voltages. Please check the derating curve for more details. derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) idered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ince on how to perform these EMC tests, please refer to "EMI testing of component power supplies." w.meanwell.com)							







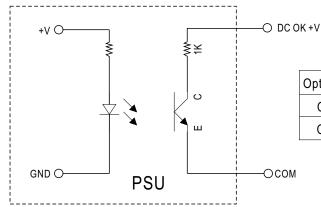
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

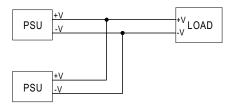
 $DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below. \\$



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

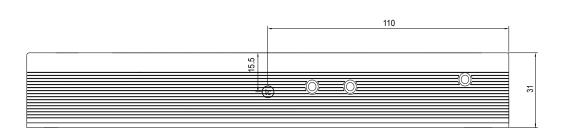
- (1) UHP-350R is built-in redundant function and can be connected 2 units in parallel .
- $(2) When in parallel operation the {\it maximum load should not be greater than the rated power of any PSU}.$



4-ψ3.3 L=6



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	<u></u>	D0200 B 001	

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

Pin No.	Assignment	Mating Housing	Terminal
1	DC COM		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

