



























■ 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

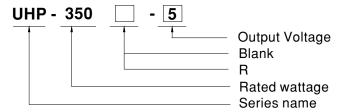
ED Display Househo

- ApplicationsIndustrial 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 $90\sim264\text{VAC}$ 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 BS EN/EN62368-1, BS EN/EN60335-1, UL 62368-1 and GB4943. UHP-350 seriesserves 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

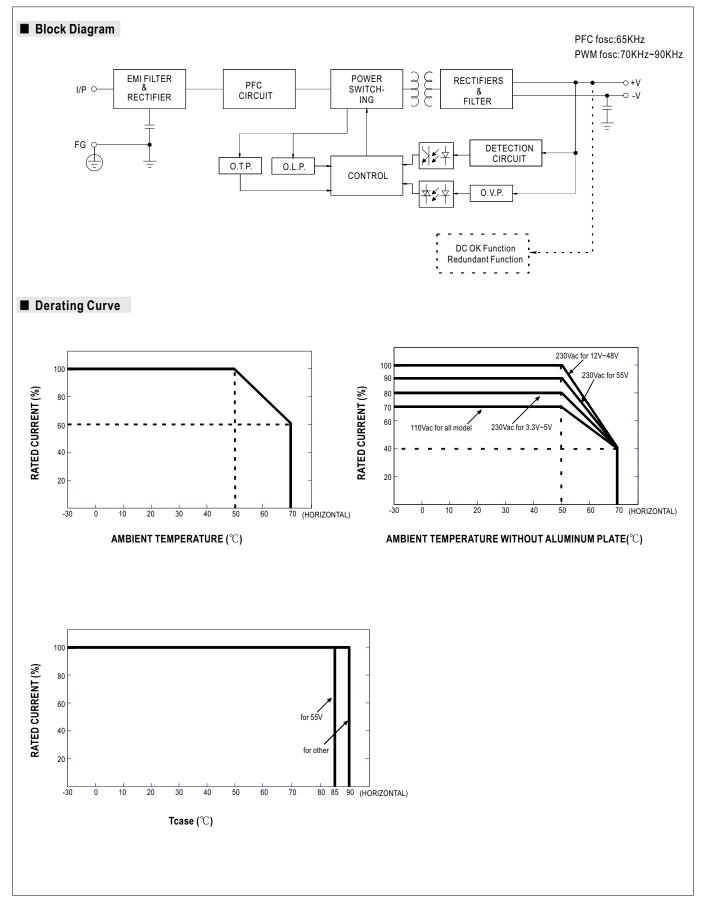
SPECIFICA MODEL	ATION	UHP-350□-3 3	UHP-350□-4 2	UHP-350□-5	UHP-350□-12	UHP-35015	UHP-350□-24	UHP-350□-36	UHP-350□-48	UHP-350□-	
MODEL	DO VOI TA OF				12V			36V	48V	55V	
	DC VOLTAGE	3.3V	4.2V	5V 60A	29.2A	15V	24V 14.6A	9.75A	-		
	RATED CURRENT	60A	60A		-	23.4A			7.3A	6.3A	
	RATED POWER	198W	252W	300W	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	
DUTPUT	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%	±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 ~ 3	70VDC							
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT	POWER FACTOR (Typ.)	PF≥0.94/23	0VAC PF≥	0.98/115VAC	at full load						
	EFFICIENCY (Typ.)	88.5%	89%	90%	91%	92%	94%	94%	94%	94%	
	AC CURRENT (Typ.)	4A/115VAC	4A/115VAC 2A/230VAC								
	INRUSH CURRENT (Typ.)Note8	Cold start 30	Cold start 30A/115VAC 60A/230VAC								
	LEAKAGE CURRENT	<0.75mA/240VAC									
		110~140% ra	ted output pov	wer							
	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									
	OVER TEMPERATURE	Protection type :Shut down O/P voltage, recovers automatically after temperature goes down									
	DC OK SIGNAL(Optional)	Contact ratin	g(max.):15Vd	c/10mA resisti	ive 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					е				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
NVIRONMENT	STORAGE TEMP., HUMIDITY										
	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 EN62368-1,BS EN/EN60335-1(Except for 55V),CCC GB4943,BSMI CNS14336-1, EAC TP TC 004 approved,Design refer to BS EN/EN61558-1,-2-16									
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 CNS13438, 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), 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 p	cs/11.88 kg/0.	63CUFT							
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.										

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 $^{\circ}$ C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.
- 3. Tolerance :includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 5. 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)
- 6. 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."

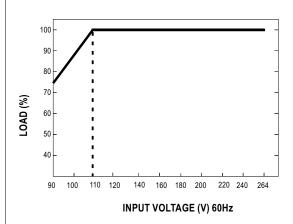
 (as available on http://www.meanwell.com)
- 7. R type efficiency slightly less than the Blank type, according to the actual measurement.
- 8. Inrush current parameter has 10% tolerance.
- $\begin{tabular}{ll} X Product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx \end{tabular}$







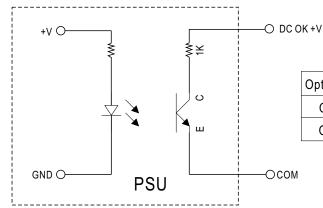
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

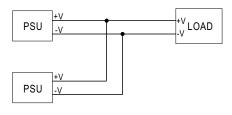
 $DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below. \\$



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

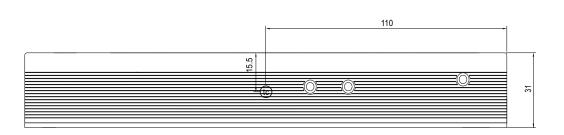
- (1) UHP-350R is built-in redundant function and can be connected 2 units in parallel .
- $(2) When in parallel operation the {\it maximum load should not be greater than the rated power of any PSU}.$



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 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

