

































■ 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)

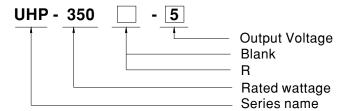
GTIN CODE

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 $90\sim264$ 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 $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$ 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 GB 4943.1 . UHP-350 seriesserves as a high performance power supply solution for various industrial applications.

■ Model Encoding

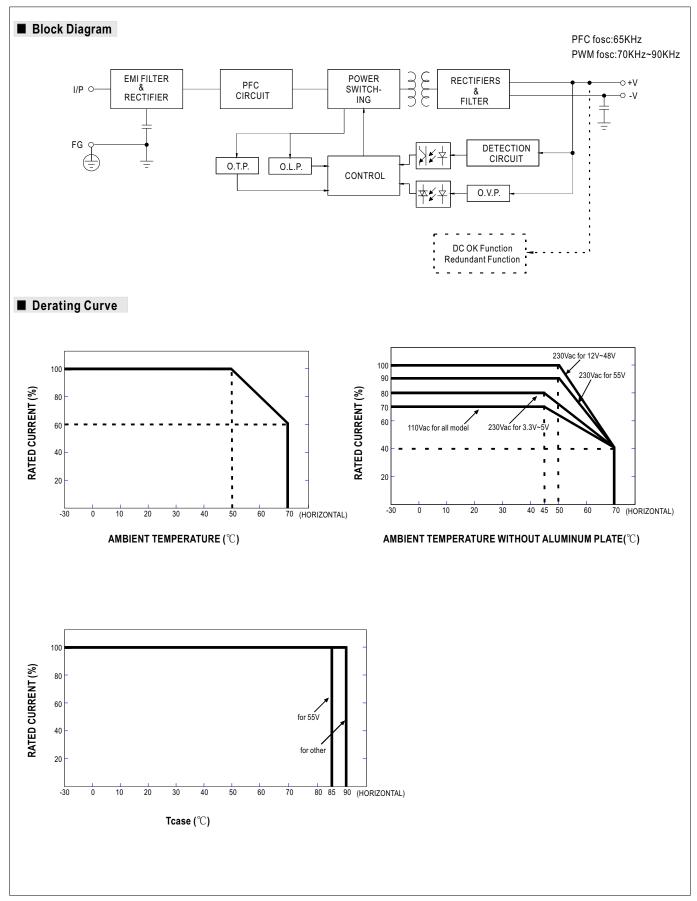


Type	Description	Note
Blank	Enclosed	In Stock
R	Built-in DC OK active signal and redundant function.	In Stock

MODEL		UHP-3503.3	UHP-3504.2	UHP-3505	UHP-35012	UHP-35015	UHP-35024	UHP-350 -36	UHP-35048	UHP-350
	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
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%	±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/230VA						•		
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 3	70VDC						
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≥0.94/23	0VAC PF≥0	0.98/115VAC	at full load					
NPUT	EFFICIENCY (Typ.) Note.7	88.5%	89%	90%	91%	92%	94%	94%	94%	94%
INPUT	AC CURRENT (Typ.)	4A/115VAC	2A/230VA	C						
	INRUSH CURRENT (Typ.)Note.8	Cold start 30.	Cold start 30A/115VAC 60A/230VAC							
	LEAKAGE CURRENT	<0.75mA/24	<0.75mA / 240VAC							
	OVERLOAD	110~140% rated output power								
			Protection type: Hiccup mode, recovers automatically after fault condition is removed							
ROTECTION	OVER VOLTAGE	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								
		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								
UNCTION	UNCTION REDUNDANT(Optional) For parallel connection protection:For parallel applications, when one PSU can not work, the another one was automatically enabled. This can prevent the system crash, and provide the reliability of system				other one will b	е				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
NVIRONMENT	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 &	SAFETY STANDARDS	UL 62368-1,TUV BS EN/EN62368-1,BS EN/EN60335-1(Except for 55V),BS EN/EN61558-1, BS EN/EN61558-2-16,GB 4943.1,BSMI CNS15598-1,EAC TP TC 004,BIS IS13252(Part1)/IEC60950-1 (except for 4.2V/15V/48V/55V) approved,Design refer to AS/NZS 61558.1/2.16,AS/NZS 62368.1								
EMC (Note.6)	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC								
	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,GB17625.1,GB/T 9254.1,Class B, BS EN/EN55014,BS EN/EN61000-3-2,-3, BSMI CNS15936, 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),BS EN/EN55035, heavy industry level ,EAC TP TC 020								
	MTBF	1791.2 K hrs min. Telcordia SR-332 (Bellcore) ; 253.4K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	220*62*31mi	m (L*W*H)					,		
	PACKING			63CUFT						
NOTE	PACKING 0.68 kg;16 pcs/11.88 kg/0.63CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.									

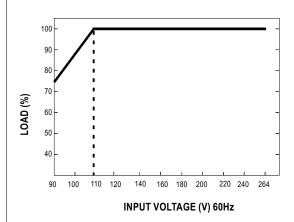
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance :includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
- $5. \ The \ ambient \ temperature \ derating \ of \ 3.5\%/1000m \ with \ fanless \ models \ and \ of \ 5\%/1000m \ with \ fan \ models \ for \ operating \ altitude \ higher \ than \ 2000m(6500ft)$
- 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 7. Only for Blank type,R type efficiency slightly less than the Blank type.
- 8. Inrush current parameter has 10% tolerance.
- 9. RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.
- $\begin{tabular}{ll} X Product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Liability\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Disclaimer: Product\ Disclaimer$







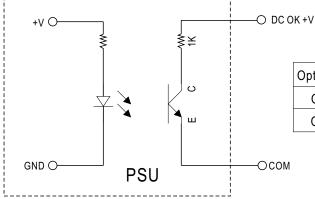
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

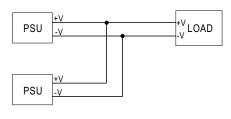
 $DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below. \\$



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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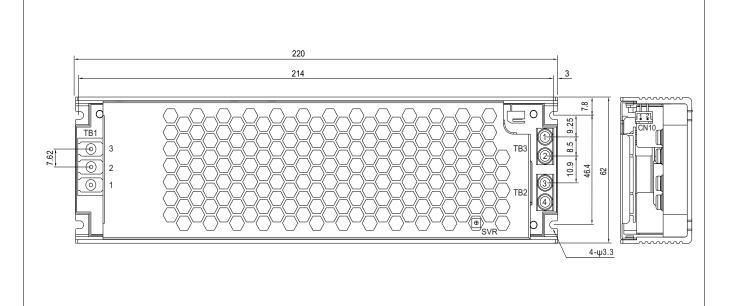
Unit:mm

CASE NO.:232C

Tolerance:±1



■ Mechanical Specification



12.5

• (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

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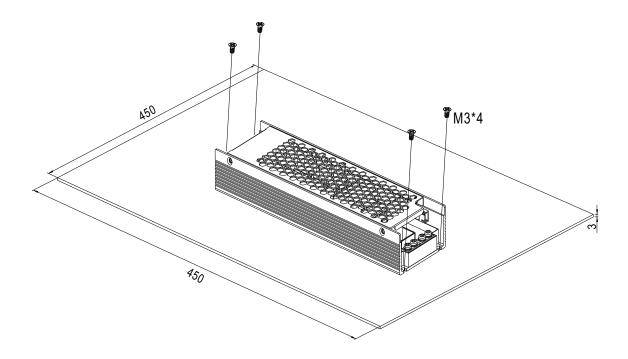


■ Installation

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



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