



























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

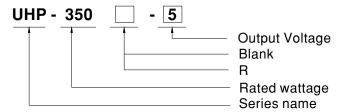
■ Applications

- · 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 $90\sim264$ 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-350□-5	UHP-350 -12	UHP-350 □-15	UHP-35024	UHP-35036	UHP-350□-48	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- _I
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, 80m	ns/230VAC; 30	000ms, 80ms/	115VAC at full	load;550ms/23	0VAC for 55V se	etup time		
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC								
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)		OVAC PF≥	0.98/115VAC a	at full load					
NOUT	EFFICIENCY (Typ.) Note.7		89%	90%	91%	92%	94%	94%	94%	94%
NPUT	AC CURRENT (Typ.)	4A/115VAC	2A/230VA		3170	JZ 70	J 7 70	34 /0	34 70	J+ /0
				-						
		Cold start 30A/115VAC 60A/230VAC								
	LEAKAGE CURRENT	<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								
				ection:For parallel applications, when one PSU can not work , the another one will be 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	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	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,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℃)								
OTHERS	DIMENSION	220*62*31mi	m (L*W*H)							
	PACKING	0.68 kg;16 pc	cs/11.88 kg/0.	63CUFT						
NOTE	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 guidance	Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. But at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. But tolerance, line regulation and load regulation. But tolerance, line and								

(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

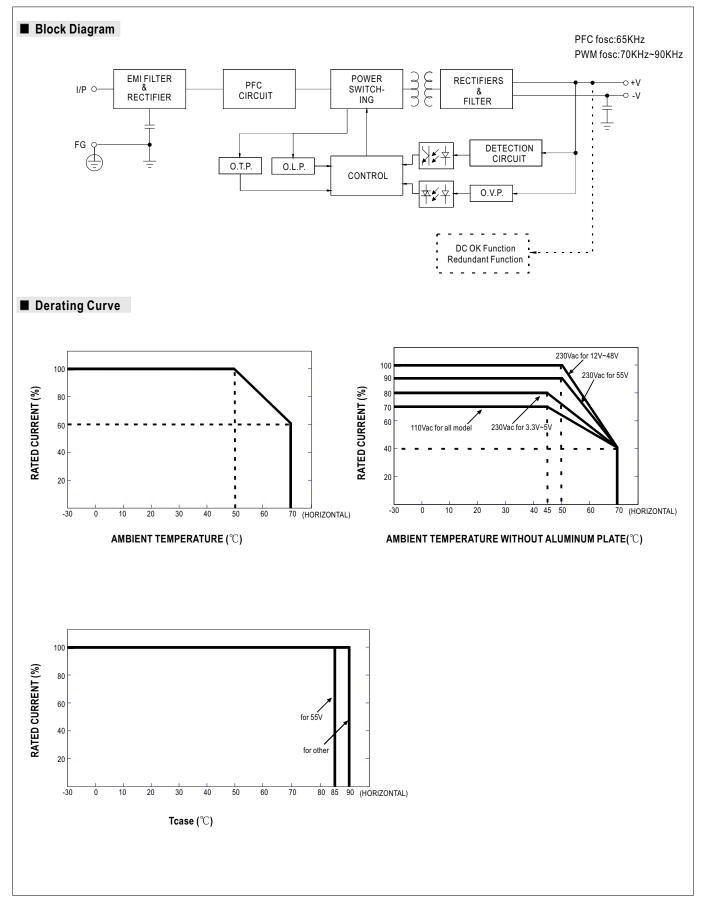
9. RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.

 $\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: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Disclaimer: For\ detailed\ information,\ please\ refer\ to\ https://www.meanwell.com/serviceDisclaimer.aspx and the product\ Disclaimer: For\ detailed\ information,\ please\ Product\ Disclaimer: For\ detailed\ Disclaimer: For\ detailed\$

7. Only for Blank type,R type efficiency slightly less than the Blank type.

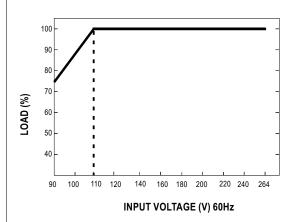
8. Inrush current parameter has 10% tolerance.







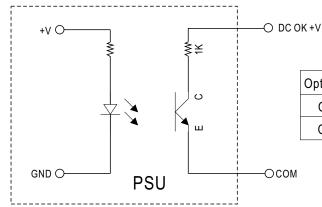
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

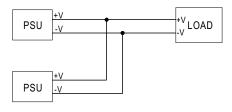
 $DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below. \\$



Optocoupler C-E Pin Conduction	PSU turns on	DC ok	
Optocoupler C-E Pin Open	PSU turns off DC fa		
Optocoupler Rating(max.)	15Vdc/10mA resistive load		

2.Redundant function

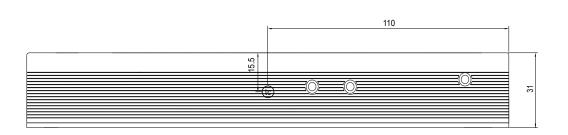
- (1) UHP-350R is built-in redundant function and can be connected 2 units in parallel .
- $(2) When in parallel operation the {\it maximum load should not be greater than the rated power of any PSU}.$



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Mechanical Specification CASE NO.:232C Unit:mm



• (tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

7.10put 10u.(12.1) p110.1.100.g							
Pin No.	Assignment	Terminal	Max mounting torque				
1	AC/L	(550001))					
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm				
3	÷	D0200 D 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

