



350W Slim Type with PFC Switching Power Supply

UHP-350 series

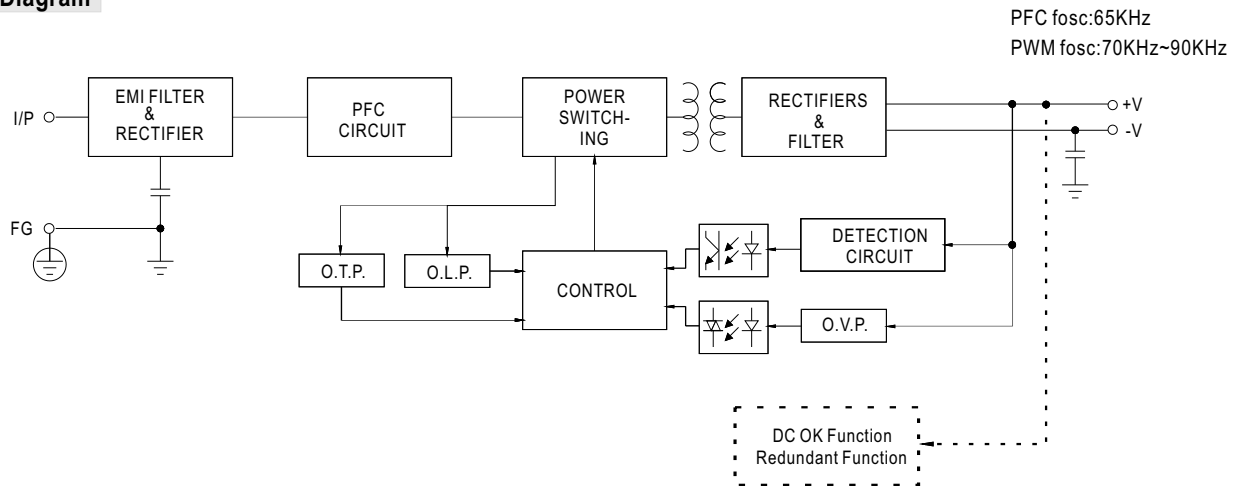
SPECIFICATION

MODEL		UHP-350□-3.3	UHP-350□-4.2	UHP-350□-5	UHP-350□-12	UHP-350□-15	UHP-350□-24	UHP-350□-36	UHP-350□-48	UHP-350□-55
OUTPUT	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
	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/230VAC 10ms/115VAC								
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≥0.94/230VAC PF≥0.98/115VAC at full load								
	EFFICIENCY (Typ.) Note.7	88.5%	89%	90%	91%	92%	94%	94%	94%	94%
	AC CURRENT (Typ.)	4A/115VAC 2A/230VAC								
	INRUSH CURRENT (Typ.) Note.8	Cold start 30A/115VAC 60A/230VAC								
PROTECTION	OVERLOAD	110~140% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	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
	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								
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)								
SAFETY & EMC (Note.6)	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								
	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℃ / 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								
OTHERS	MTBF	1791.2 K hrs min. Telcordia SR-332 (Bellcore); 253.4K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	220*62*31mm (L*W*H)								
	PACKING	0.68 kg; 16 pcs/11.88 kg/0.63CUFT								

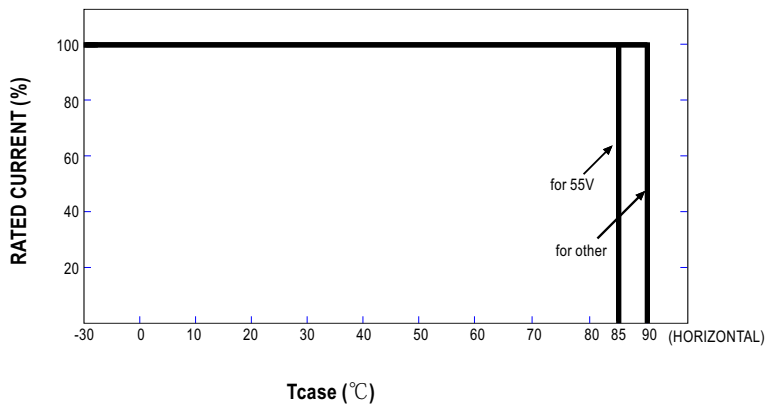
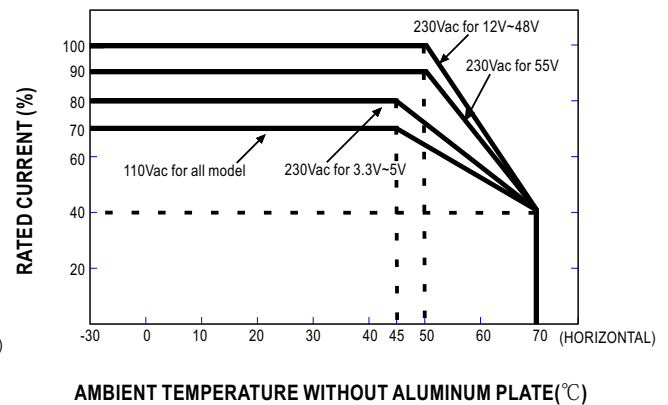
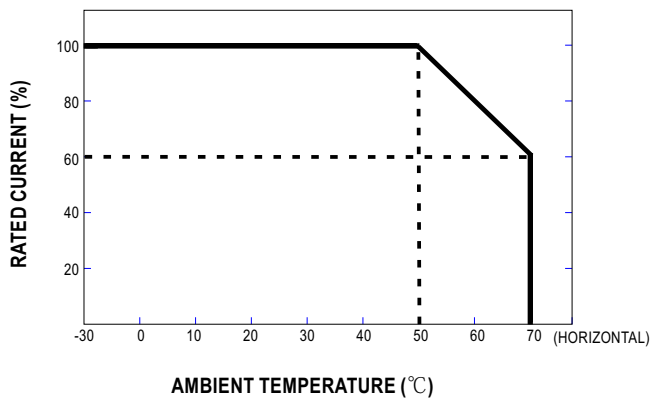
NOTE

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
 - Ripple & 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℃/1000m with fanless models and of 5℃/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 https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)
 - Only for Blank type, R type efficiency slightly less than the Blank type.
 - Inrush current parameter has 10% tolerance.
 - RCM is on voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.
- ※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

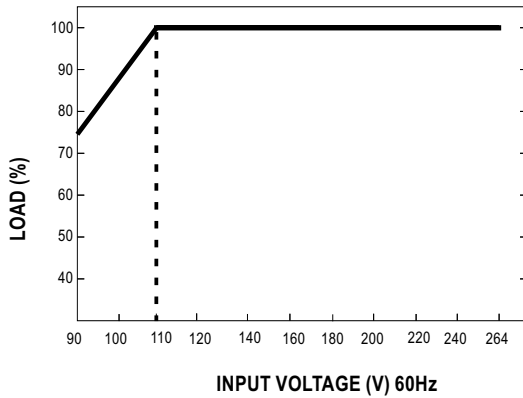
Block Diagram



Derating Curve



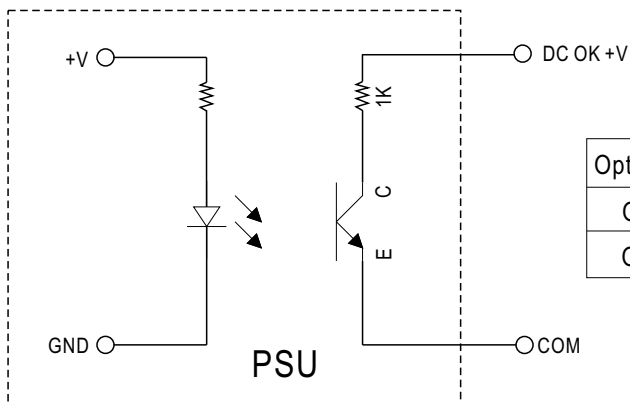
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

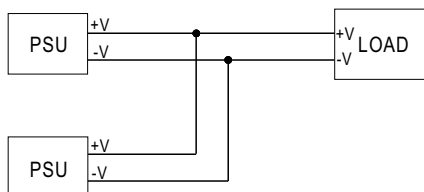
DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below.



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

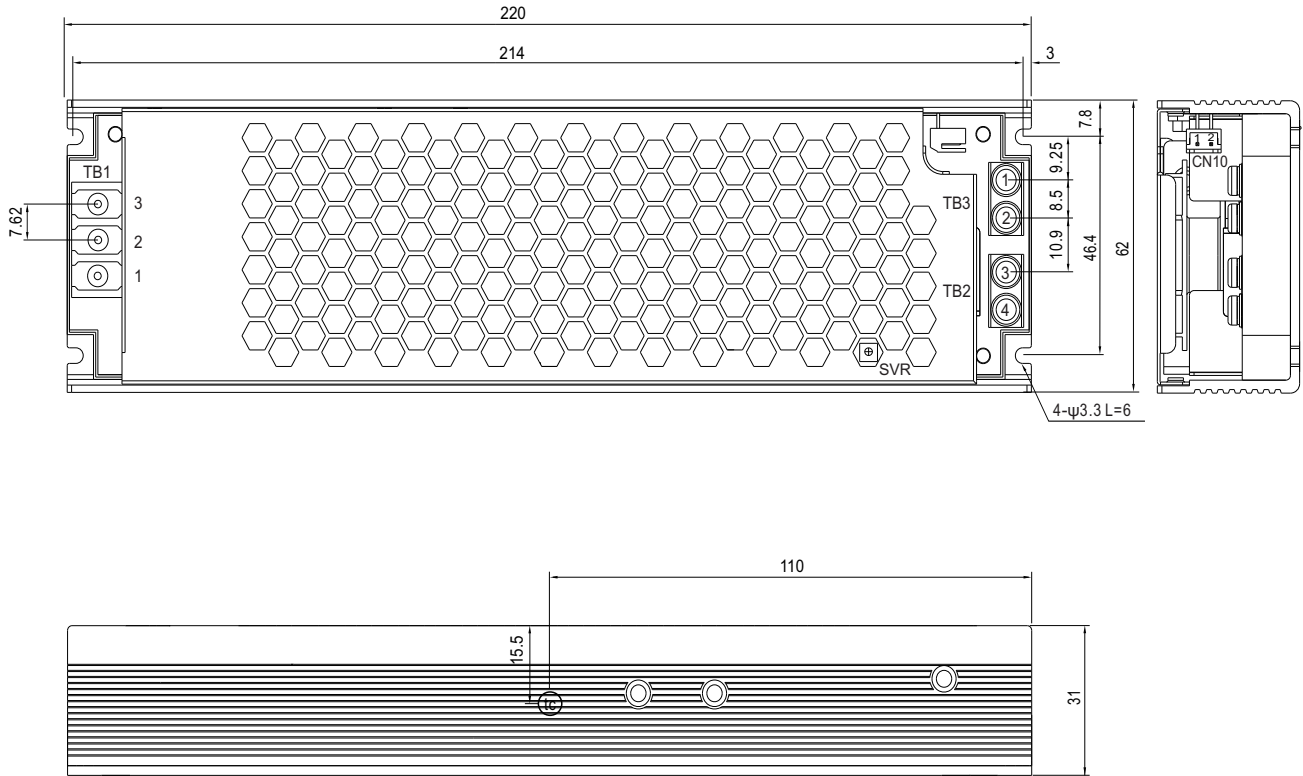
- (1) UHP-350R is built-in redundant function and can be connected 2 units in parallel .
- (2) When in parallel operation the maximum load should not be greater than the rated power of any PSU.



Mechanical Specification

CASE NO.:232C

Unit:mm



• t_c : Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(DEGSON) DG28C-B-03P	5Kgf-cm
2	AC/N		
3	$\perp$		

DC Output Terminal(TB2,TB3) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW) TB-HTP-200-40A	8Kgf-cm
3,4	+V		

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

Pin No.	Assignment	Mating Housing	Terminal
1	DC COM	JST PHR-2 or requivalent	JST SPH-002T-P0.5S or requivalent
2	DC OK +V		

■ 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

