



























- Slim and Low profile (26mm)
- · Fanless design,200W 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

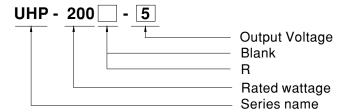
Household Automate Industrial Applications

- · Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- Household appliances
- · LED display application

■ Description

UHP-200 series is a 200W single-output slim type power supply with 26mm 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 operates from $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$ under air convection without fan. UHP-200 has the complete protection functions and 5G anti-vibration capability;It is complied with the international safety regulations such as TUV EN60950-1, EN60335-1, UL60950-1 and GB4943. UHP-200 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding

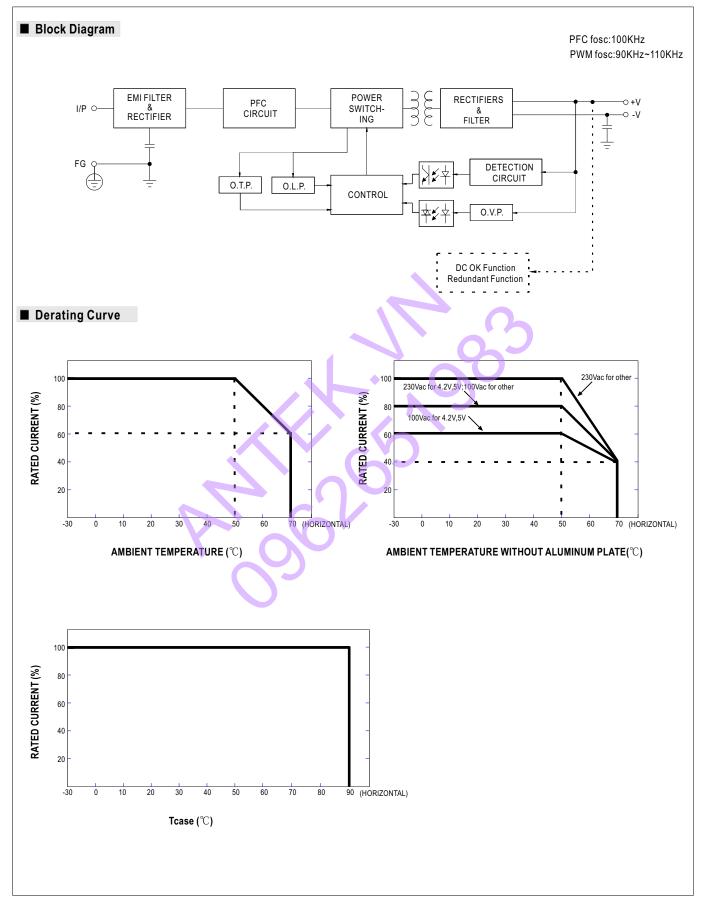


Type	Description	Note
Blank	Enclosed	In Stock
R	Built-in DC OK active signal and redundant function.	In Stock

UHP-200 series

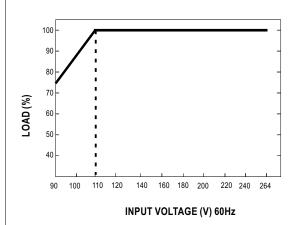
MODEL		UHP-200 -3.3	UHP-2004.2	UHP-2005	UHP-20012	UHP-200□-15	UHP-20024	UHP-20036	UHP-20048
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V
	RATED CURRENT	40A	40A	40A	16.7A	13.4A	8.4A	5.6A	4.2A
	RATED POWER(convection)	132W	168W	200W	200.4W	201W	201.6W	201.6W	201.6W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	240mVp-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
OUTPUT	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%
=11070				ms, 80ms/115V	AC 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≥0.94/230VA	C PF≥0.98/11	5VAC at full load					
INPUT	EFFICIENCY (Typ.)	89%	90%	91%	93%	94%	94%	94%	94%
	AC CURRENT (Typ.)	2.2A/115VAC	1.1A/230VAC						
	INRUSH CURRENT (Typ.)	Cold start 40A/11	15VAC 80A/23	30VAC					
	LEAKAGE CURRENT	<0.75mA / 240VA	AC .		7	Ch			
	OVERLOAD	110~140% rated	output power			70			
PROTECTION	OVERLOAD	Protection type :	Hiccup mode, rec	overs automatic	ally after fault con	dition is removed			
PROTECTION		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 vo	Itage,re-power o	n to recover	•			
	OVER TEMPERATURE	Protection type:	Shut down O/P vo	Itage, recovers	automatically afte	r temperature go	es down		
	DC OK SIGNAL(Optional)	Contact rating(m	ax.):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							
	WORKING TEMP.	-30 ~ +70 ℃ (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	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 STANDARDS	UL60950-1,TUV	EN60950-1,EN60	335-1, CCC GB	4943, EAC TP TC	004, BSMI CNS1	4336-1 approved	, Design refer to E	EN61558-1,-2-16
OAFFTY 6	WITHSTAND VOLTAGE	I/P-O/P:3.75KVA	C I/P-FG:2KVA	C O/P-FG:1.2	5KVAC				
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,0	D/P-FG:100M Ohn	ns/500VDC/25°(70%RH				
EMC (Note.6)	EMC EMISSION	Compliance to EN55032, GB9254, Class B, EN55014, EN61000-3-2, -3, EAC TP TC 020, BSMI CNS13438							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11;EN61000-6-2 (EN50082-2), heavy industry level ,criterial A,EAC TP TC 020							
	MTBF	257K hrs min.	MIL-HDBK-217F	(25℃)					
OTHERS	DIMENSION	194*55*26mm (L	.*W*H)						
	PACKING	0.468kg;24pcs/1	2.2kg/0.49CUFT						
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25[™]C 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 5[™]C/1000m is needed for operating altitude greater 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 http://www.meanwell.com) 								







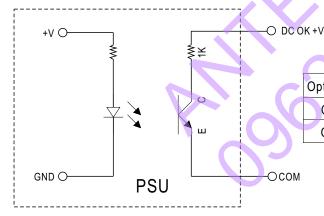
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

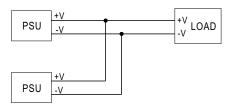
DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below.



0	ptocoupler C-E Pin Conduction	PSU turns on	DC ok
	Optocoupler C-E Pin Open	PSU turns off	DC fail
	Optocoupler Rating(max.)	15Vdc/10mA re	sistive load

2.Redundant function

- (1) UHP-200R 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.

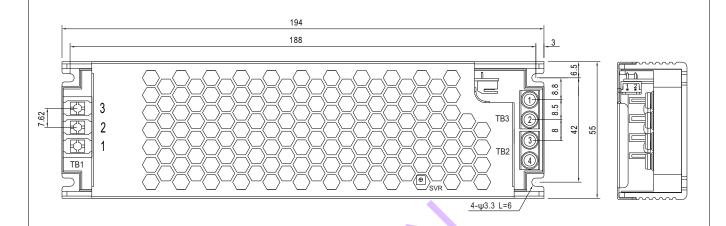


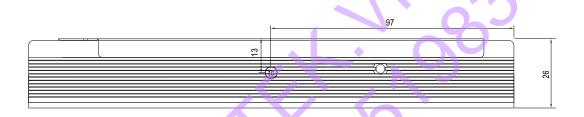


■ Mechanical Specification

CASE NO.:249B

Unit:mm





• (tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(5500011)	
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm
3	÷	20200 0 001	

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

		1	
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

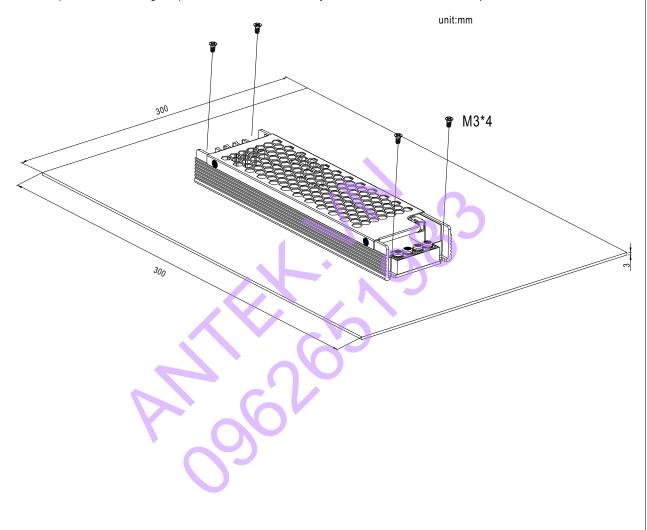
Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	TB-HTP-200-40A	8Kgf-cm



■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-200 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-200 series must be firmly mounted at the center of the aluminum plate.































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











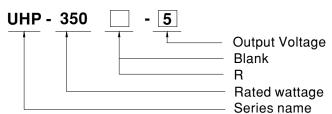
Applications

- · 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 90~264VAC 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°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 EN60950-1, EN60335-1, UL60950-1 and GB4943. UHP-350 series serves as a high performance power supply solution for various industrial applications.

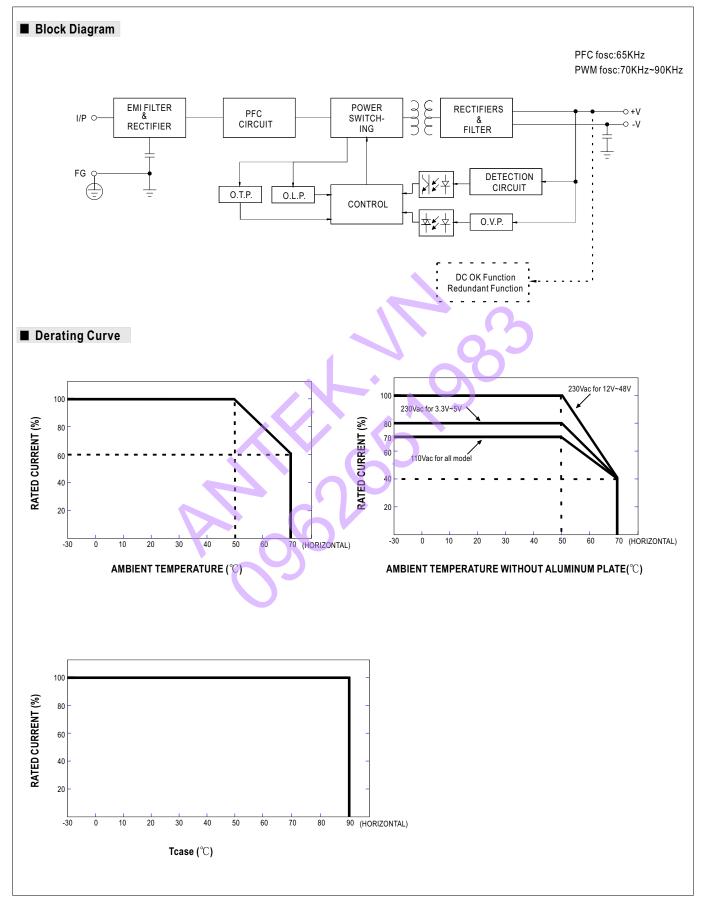
■ Model Encoding



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

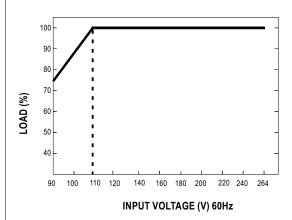
MODEL		UHP-350 ☐-3.3	UHP-3504.2	UHP-350□-5	UHP-350 □-12	UHP-350 □-15	UHP-350□-24	UHP-350□-36	UHP-350□-48
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V
	RATED CURRENT	60A	60A	60A	29.2A	23.4A	14.6A	9.75A	7.3A
	RATED POWER(convection)	198W	252W	300W	350.4W	351W	350.4W	351W	350.4W
	RIPPLE & NOISE (max.) Note.2	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 I	oad			
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC							
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370V	DC .					
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF≥0.94/230°	VAC PF≥0.98	3/115VAC at fu	II load				
INPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	91%	92%	94%	94%	94%
	AC CURRENT (Typ.)	4A/115VAC	2A/230VAC				b		
	INRUSH CURRENT (Typ.)	Cold start 30A	115VAC 60	A/230VAC					
	LEAKAGE CURRENT	<0.75mA / 240	VAC			40			
		110~140% rate	d output power		<u> </u>				
	OVERLOAD	Protection type	: Hiccup mode,	recovers auto	matically after fa	ault condition is I	removed		
PROTECTION		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/i	voltage,re-po	wer on to recov	er			
	OVER TEMPERATURE	Protection type :Shut down O/P voltage, recovers automatically after temperature goes down							
	DC OK SIGNAL(Optional)	Contact rating	max.):15Vdc/10	mA resistive lo	pad				
FUNCTION	REDUNDANT(Optional)						n not work , the		be
	WORKING TEMP.	-30 ~ +70°C (R	efer to "Derating	Curve")					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	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 STANDARDS	UL60950-1,TUV EN60950-1,EN60335-1,CCC GB4943,BSMI CNS14336-1,EAC TP TC 004 approved,Design refer to 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-F0	G,O/P-FG:100N	1 Ohms/500V[DC/25°C / 70%R				
(Note.6)	EMC EMISSION	Compliance to	EN55032,GB92	254,Class B, El	N55014,EN6100	0-3-2,-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
OTHERS	DIMENSION	220*62*31mm	(L*W*H)						
	PACKING	0.68 kg;16 pcs/11.88 kg/0.63CUFT							
NOTE	Ripple & noise are measured Tolerance :includes set up to Derating may be needed und The ambient temperature det The power supply is consider	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. 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) dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets nce on how to perform these EMC tests, please refer to "EMI testing of component power supplies." w.meanwell.com)							







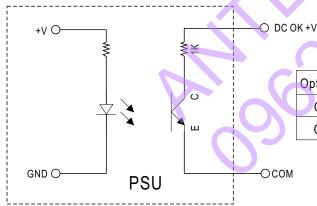
■ STATIC CHARACTERISTIC



■ Function Manual

1.DC_OK Signal

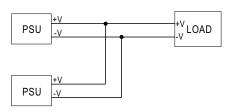
DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below.



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

2.Redundant function

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

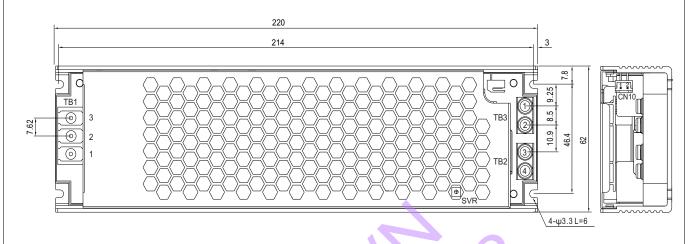


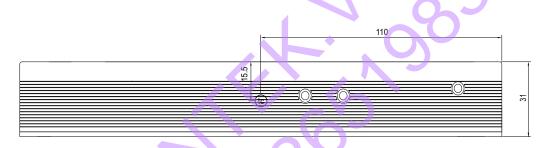


■ Mechanical Specification

CASE NO.:232C

Unit:mm





• to : Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

7.0put 10u.(12.) p100.g							
Pin No.	Assignment	Terminal	Max mounting torque				
1	AC/L	(550001))					
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm				
3	÷	B0200 B 001					

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

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

200110010101010101010101010101010101010					
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		

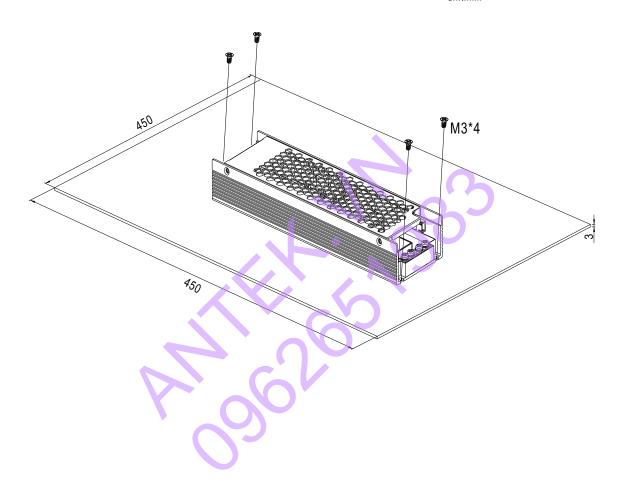


■ Installation

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



























Features

- Slim and Low profile (31mm)
- · Fanless design,500W convection
- · Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- 150% peak load capability(100ms)
- -20~+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

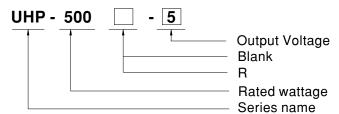
Applications

- · Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- LED display application

■ Description

UHP-500 series is a 500W 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 4.2V, 5V, 12V, 15V, 24V, 36V and 48V. In addition to the high efficiency up to 95%, that the whole series operates from $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ under air convection without fan. UHP-500 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV EN60950-1, UL60950-1 and GB4943. UHP-500 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding

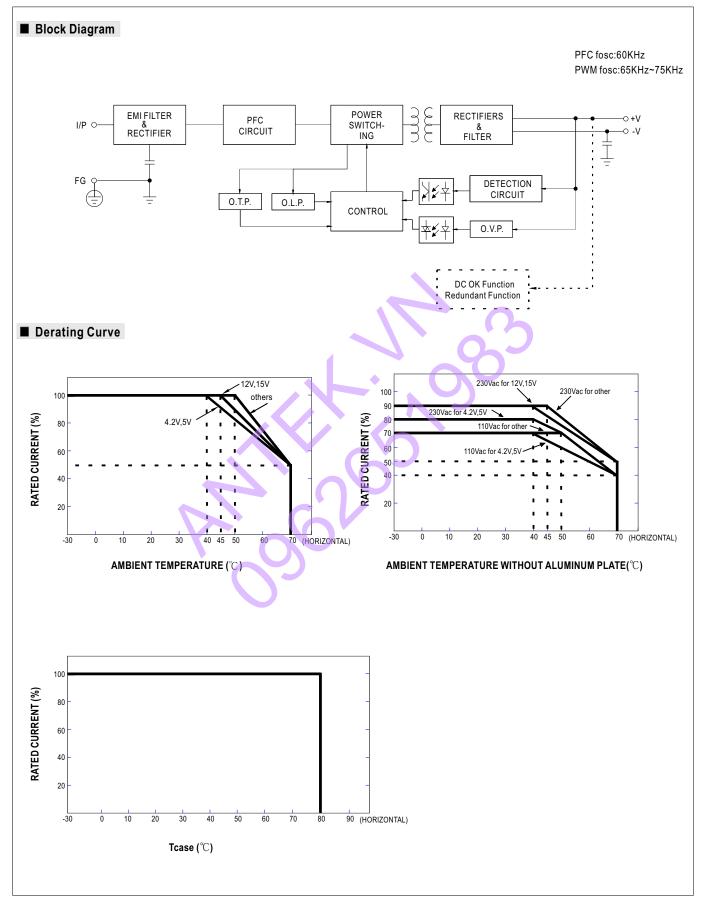


Туре	Description	Note
Blank	Enclosed	In Stock
R	Buit-in DC OK active signal and redundant function.	By request



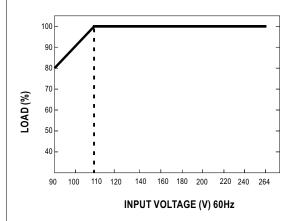
MODEL		UHP-500 -4.2	UHP-500 -5	UHP-500 -12	UHP-50015	UHP-500 -24	UHP-500 -36	UHP-500 -48		
	DC VOLTAGE	4.2V	5V	12V	15V	24V	36V	48V		
	RATED CURRENT	80A	80A	41.7A	33.4A	20.9A	13.9A	10.45A		
	RATED POWER(convection)	336W	400W	500.4W	501W	501.6W	500.4W	501.6W		
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p	360mVp-p	360mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE	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		
0011 01	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%		
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1000ms, 50ms/2	230VAC 10)00ms,50ms/115	VAC at full load					
	HOLD UP TIME (Typ.)	12ms/230VAC	12ms/115VAC	<u> </u>						
	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VD							
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≥0.95/230V	AC PF≥0.98/	115VAC at full loa	ıd					
INPUT	EFFICIENCY (Typ.)	89%	90%	94%	94%	94.5%	95%	95%		
	AC CURRENT (Typ.)	4.85A/115VAC	2.6A/230VA0							
	INRUSH CURRENT (Typ.)	Cold start 30A/1	15VAC 60A/	230VAC						
	LEAKAGE CURRENT	<0.75mA / 240V								
	OVERI OAR	110~140% rated	Loutput power							
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
ROTECTION		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		
ROTECTION	OVER VOLTAGE			voltage,re-power		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10000		
	OVER TEMPERATURE	Protection type: Shut down O/P voltage, recovers automatically after temperature goes down								
	DC OK SIGNAL(Optional)	Contact rating(n				•	<u> </u>			
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								
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH no		,						
ENVIRONMENT	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 STANDARDS	UL60950-1, TUV EN60950-1, CCC GB4943, BSMI CNS14336-1, EAC TP TC 004 approved; Design refer to EN60335-1, EN61558-2-16								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC								
ЕМС	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 E	N55032,GB/T92	254,Class B, EN6	61000-3-2,-3, BS	MI CNS13438, E	AC TP TC 020			
	EMC IMMUNITY	Compliance to E	N61000-4-2,3,4	,5,6,8,11;EN6100	0-6-2 (EN50082	-2), heavy indust	ry level ,criterial	A,EAC TP TC 0		
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11;EN61000-6-2 (EN50082-2), heavy industry level ,criterial A,EAC TP TC 020 168K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	232*81*31mm (L*W*H)	,						
	PACKING	0.905kg; 16pcs/	15.48kg/0.82CU	IFT						
NOTE	 Ripple & noise are measure Tolerance includes set up t Derating may be needed un The ambient temperature do The power supply is conside that it still meets EMC direct 	0.905kg; 16pcs/15.48kg/0.82CUFT mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. I at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. lerance, line regulation and load regulation. Ider low input voltages. Please check the derating curve for more details. rating of 3.5°C/1000m is needed for operating altitude greater than 2000m(6500ft) red a component which will be installed into a final equipment. The final equipment must be re-confirmed ves. For guidance on how to perform these EMC tests, for omponent power supplies." (as available on http://www.meanwell.com)								







■ STATIC CHARACTERISTIC

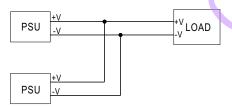


■ DC OK Relay Contact

Contact Close	PSU turns on/DC ok		
Contact Open	PSU turns off/DC fail		
Contact Rating(max.)	30Vdc/1A resistive load		

■ Redundant function

- (1) UHP-500R 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.

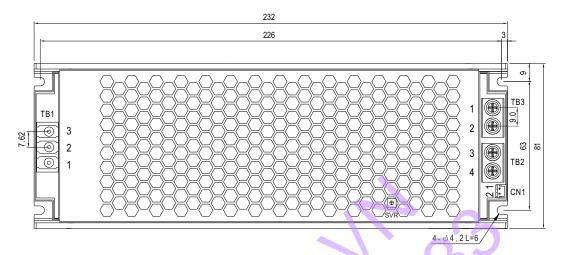


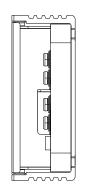


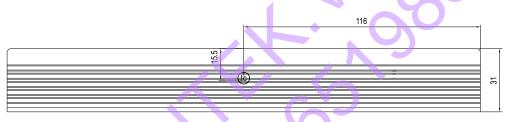
■ Mechanical Specification

CASE NO.:233D

Unit:mm







tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

, to input	to input forminal (181) pin 110.7 toolgimont						
Pin No.	Assignment	Terminal	Max mounting torque				
1	AC/L	(DE000N)					
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm				
3	÷	DO200 D 001					

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

Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	MEL-400-02P	8Kgf-cm

DC OK Connector(CN1):JST B2B-PH-K-S or requivalent

Pin No.	Assignment Mating Housing		Terminal	
1	DC COM1	JST PHR-2	JST SPH-002T-P0.5S	l
2	DC COM2	or requivalent	or requivalent	

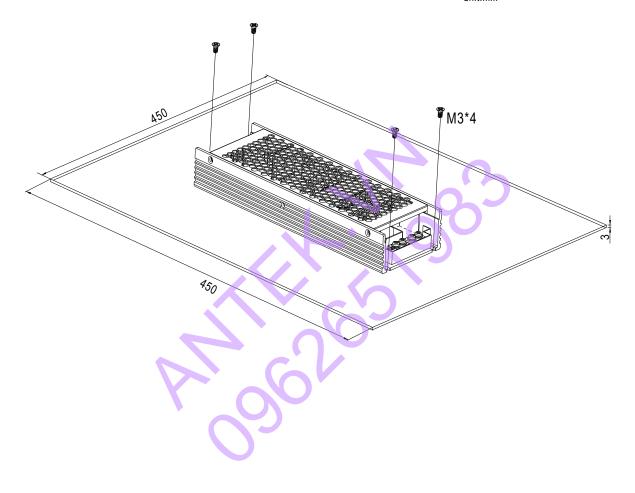


■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-500 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-500 series must be firmly mounted at the center of the aluminum plate.

unit:mm















- Slim and Low profile (41mm)
- · Fanless and conduction-cooled design
- 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 relay contact
- Operating altitude up to 5000 meter (Note.6)
- · LED indicator for power on
- · 3 years warranty













■ Certificates

- Safety: UL/EN62368-1
- EMC: EN 55032 / 55024

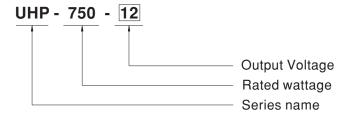
Applications

- · Industrial automation machinery
- · Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- Household appliances

Description

UHP-750 series is a 750W single-output slim type power supply with 41mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 12V, 24V,36V and 48V. In addition to the high efficiency up to 95%, that the whole series operates from -30° C \sim 70° C under air convection without fan. UHP-750 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV EN62368-1 and UL62368-1. and design refers to EN61558-1 and EN60335-1. UHP-750 series serves as a high performance power supply solution for various industrial applications.

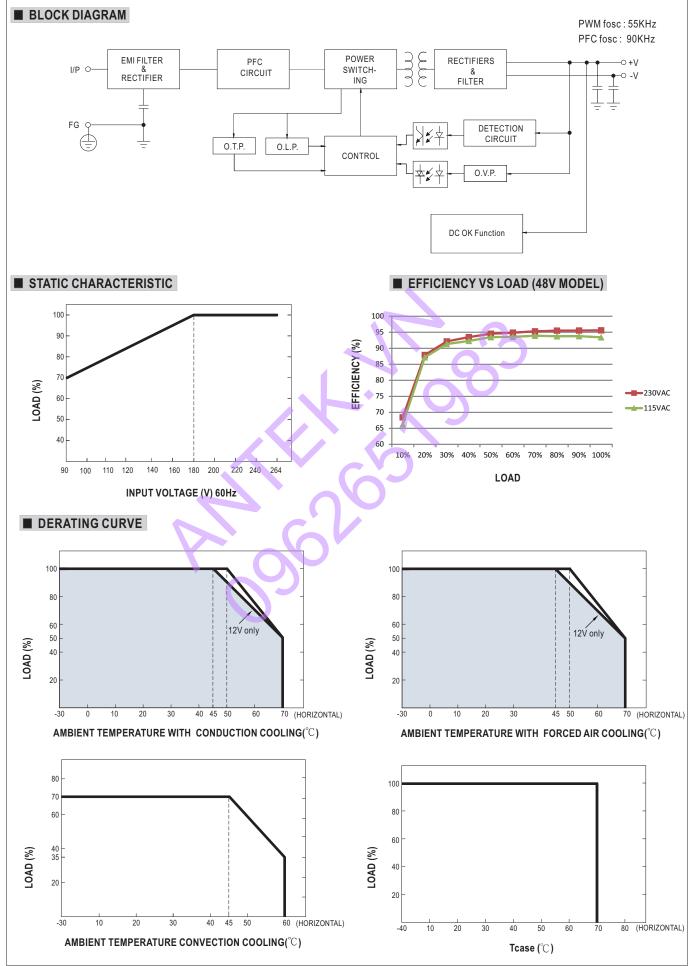
■ Model Encoding





MODEL		UHP-750-12	UHP-750-24	UHP-750-36	UHP-750-48			
	DC VOLTAGE	12V	24V	36V	48V			
	RATED CURRENT	60A	31.3A	20.9A	15.7A			
	RATED POWER(convection)	720W	751.2W	752.4W	753.6W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	200mVp-p	250mVp-p	250mVp-p			
	VOLTAGE ADJ. RANGE	12~14.4V	24~28.8V	36~43.2V	48~57.6V			
OUTPUT	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME		10ms,50ms/115VAC at full load					
	HOLD UP TIME (Typ.)	12ms/230VAC 12ms/115VAC	,					
	, , ,	90 ~ 264VAC 127 ~ 370VD						
	FREQUENCY RANGE	47 ~ 63Hz	0					
		PF≥0.95/230VAC PF≥0.99/	115\/AC at full load					
INPUT	POWER FACTOR (Typ.)			059/	95%			
INPUI	EFFICIENCY (Typ.)	93.5%	95%	95%	95%			
	AC CURRENT (Typ.)	7.5A/115VAC 3.8A/230VAC	(000) (4.0					
	INRUSH CURRENT (Typ.)		/230VAC					
	LEAKAGE CURRENT	<0.75mA / 240VAC						
	OVERLOAD	105~125% rated output power						
	OVEREDAD	Protection type: Hiccup mode, re			I=0 -001			
PROTECTION	OVER VOLTAGE	14.5 ~ 16V	29 ~ 33V	43.5 ~ 49V	59 ~ 66V			
		Protection type: Shut down O/P	voltage, re-power on to recover					
	OVER TEMPERATURE	Protection type: Shut down O/P	voltage, recovers automatically a	after temperature goes d	own			
FUNCTION	DC-OK SIGNAL	Contact rating(max.): 30Vdc/1	A resistive load					
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating	Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	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 STANDARDS	UL62368-1,TUV EN62368-1, EA	C TP TC 004 approved; design r	efer to EN61558-1, EN6	0335-1			
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC I/P-FG: 2F	VAC O/P-FG: 1.25KVAC	·				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M	Ohms/500VDC/25°C / 70%RH					
		Parameter	Standard	1.	Test Level / Note			
	\	Conducted	EN55032 (CISPR32)	1	Class B			
	EMC EMISSION	Radiated	EN55032 (CISPR32)		Class B			
	Lino Liniodioit	Harmonic Current	EN61000-3-2		Class A			
CAFETY		Voltage Flicker	EN61000-3-3					
SAFETY &		EN55024 , EN61000-6-2	21101000 0 0					
EMC (Note.5)		Parameter	Standard	-	Test Level / Note			
(11010.0)		ESD	EN61000-4-2					
		Radiated	EN61000-4-2 EN61000-4-3		Level 3, 8KV air ; Level 2, 4KV contact			
					Level 3			
	EMC IMMUNITY	EFT / Burst	EN61000-4-4		Level 3			
		Surge	EN61000-6-2		2KV/Line-Line 4KV/Line-Earth			
		Conducted	EN61000-4-6		Level 3			
		Magnetic Field	EN61000-4-8		Level 4			
		Voltage Dips and Interruptions	EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods			
	MTBF		R-332 (Bellcore); 104.86K hrs m	in. MIL-HDBK-217F (2	25°C)			
OTHERS	DIMENSION	237*100*41mm (L*W*H)						
	PACKING	1.4kg; 10pcs/15kg/0.8CUFT						
NOTE	Ripple & noise are measure Tolerance includes set up to the control of t	te with 1mm of thickness. The filease refer to "EMI testing of co	ing a 12" twisted pair-wire termid regulation. check the derating curve for mo installed into a final equipment. nal equipment must be re-confi mponent power supplies." (as a	nated with a 0.1uf & 47 re details. All the EMC tests are broad that it still meets Evailable on http://www.r	or parallel capacitor. Deen executed by mounting the unit on EMC directives. For guidance on how to			





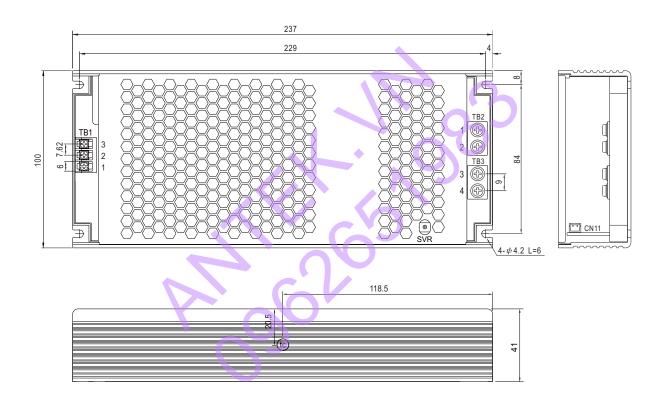


■ DC OK RELAY CONTACT

Contact Close	PSU turns on/DC ok
Contact Open	PSU turns off/DC fail
Contact Rating(max.)	30Vdc/1A resistive load

■ MECHANICAL SPECIFICATION

Case No.270B Unit:mm



AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	DEOA	
2	AC/N	DECA T21-EM10-03	9.2Kgf-cm
3	≐		-

$\underline{\sf DC\ Output\ Terminal(TB2,TB3)\ pin\ NO.\ Assignment}$

Pin No.	Assignment	Terminal	Max mounting torque
1,2	+V	(MW)	
3,4	-V	NEL-400-02P	8Kgf-cm

DC OK Connector(CN11):JST S2B-PH-KL or requivalent

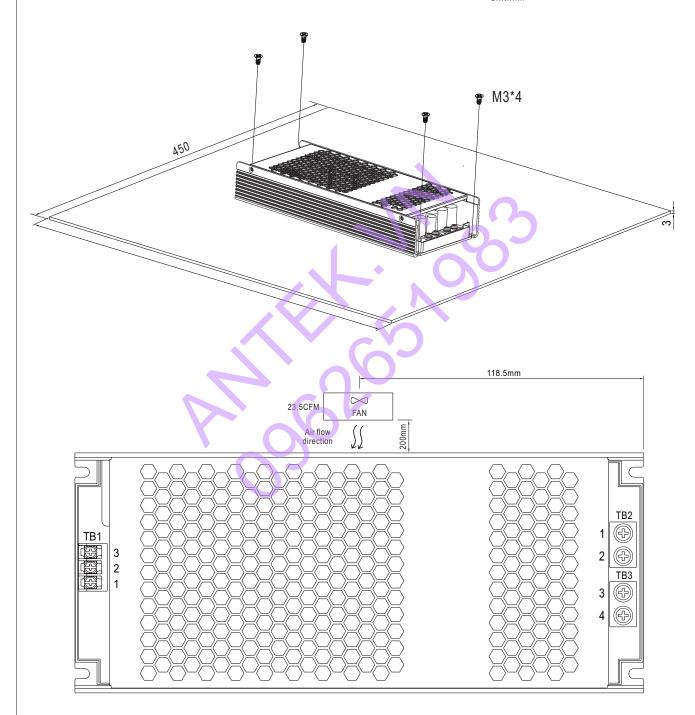
Pin No.	Assignment	Mating Housing	Terminal
1	DC COM1		JST SPH-002T-P0.5S
2	DC COM2	or requivalent	or requivalent



Operate with additional aluminum plate and fan

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-750 series can be installed onto an aluminum plate (or the cabinet of the same size) on the bottom or apply forced air cooled solution. The size of the suggested aluminum plate and configuration of fan are 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-750 series must be firmly mounted at the center of the aluminum plate.

unit:mm



■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html























Features

- Slim and Low profile (41mm)
- · Fanless and conduction-cooled design
- Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- -30~+70°C working temperature
- · Output voltage and constant current level programmable
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in remote ON-OFF control
- DC OK active signal
- Operating altitude up to 5000 meter (Note.5)
- · LED indicator for power on
- 5 years warranty









Certificates

- Safety: UL/EN62368-1
- EMC: EN 55032 / 55024

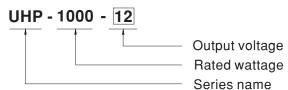
Applications

- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- · Electronic instruments, equipment or apparatus
- Test and measurement instrument
- · Laser related machine
- Charging related equipment
- Household appliances

Description

UHP-1000 series is a 1000W single-output slim type power supply with 41mm of low profile design. Adopting the full range 90~264VAC input, the entire series provides an output voltage line of 12V,24V,36V and 48V. In addition to the high efficiency up to 96%, that the whole series operates from -30 $^{\circ}$ C ~ 70 $^{\circ}$ C under air convection without fan. UHP-1000 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV EN62368-1, UL62368-1, and design refers to EN61558-1 and EN60335-1. UHP-1000 series serves as a high performance power supply solution for various industrial applications.

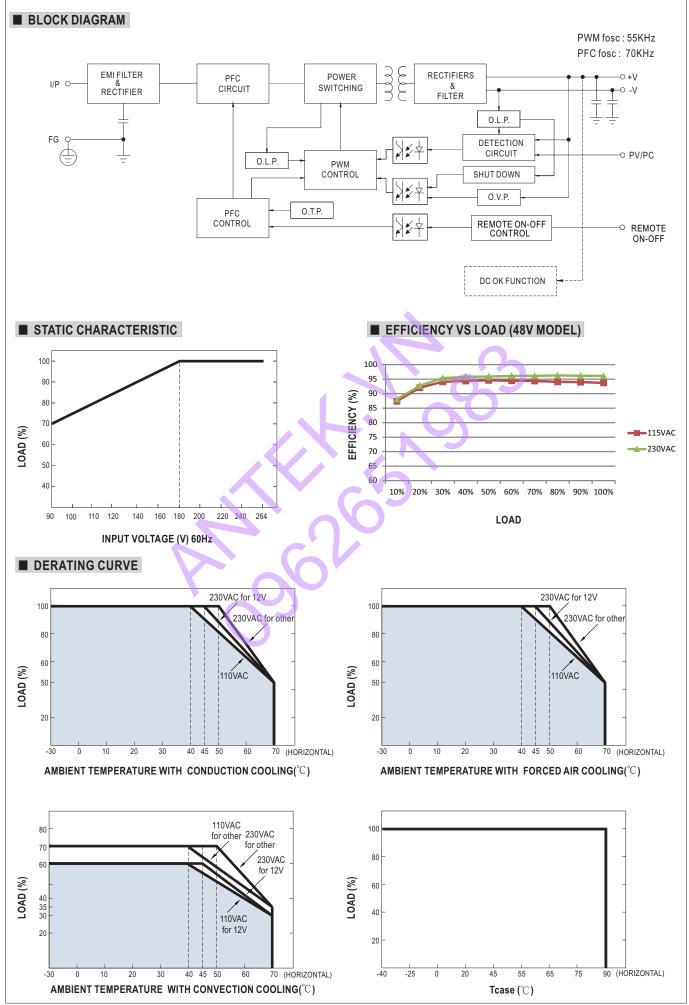
Model Encoding





OUTPUT	DC VOLTAGE RATED CURRENT RATED POWER(convection) RIPPLE & NOISE (max.) Note.2	12V 80A	24V	36V	48V				
OUTPUT	RATED POWER(convection)	80A							
OUTPUT	(, , , , , , , , , , , , , , , , , , ,		42A	28A	21A				
OUTPUT	DIDDLE & NOISE (max.) Note 2	960W	1008W	1008W	1008W				
DUTPUT	KIFFLE & NOISE (IIIax.) Note.2	150mVp-p	240mVp-p	240mVp-p	300mVp-p				
OUTPUT		By built-in potentiometer, SVR							
	VOLTAGE ADJ. RANGE	12~14.4V	24~28.8V	36~43.2V	48~57.6V				
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	±1.0%				
-	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%				
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%				
		0.5% 10.5% 10.5% 10.5% 10.5%							
	SETUP, RISE TIME	,		10au					
	HOLD UP TIME (Typ.)	12ms/230VAC 12ms/115V							
	VOLTAGE RANGE Note.4	90 ~ 264VAC 250 ~ 370VD	OC .						
	FREQUENCY RANGE	17 ~ 63Hz							
NDUT	POWER FACTOR (Typ.)	PF≥0.95/230VAC PF≥0.99/							
NPUT	EFFICIENCY (Typ.)	94%	95%	95.5%	96%				
	AC CURRENT (Typ.)	10.1A/115VAC 5.3A/230VA	C						
	INRUSH CURRENT (Typ.)	Cold start 20A/115VAC 40A	/230VAC						
	LEAKAGE CURRENT	<0.75mA/240VAC							
		105~120% rated output power							
	OVERLOAD	Protection type: Constant curre	nt limiting with delay shuto	lown after 3 seconds, re-por	wer on to recover				
	SHORT CIRCUIT	Protection type: Constant curre	nt limiting with delay shute	down after 3 seconds, re-por	wer on to recover				
PROTECTION		14.5 ~ 16V	29 ~ 33V	43.5 ~ 49V	59 ~ 66V				
	OVER VOLTAGE	Protection type: Shut down O/P	voltage re-power on to re	ecover					
	OVER TEMPERATURE	Protection type: Shut down O/P			as down				
	OUTPUT VOLTAGE	Adjustment of output voltage is							
	PROGRAMMABLE(PV) Note 5			of nonlinar output voitage					
	OUTPUT CURRENT	Please refer to the Function Manual. Adjustment of constant current level is allowable to 20 ~ 100% of rated current.							
FUNCTION	PROGRAMMABLE(PC) Note 5								
	REMOTE ON/OFF CONTROL	Power ON: "Low" <0 ~ 0.5V or Short circuit Power OFF: "Hi" >2 ~ 5V or Open circuit							
	AUXILIARY POWER								
H	DC-OK SIGNAL	12V@0.5A tolerance \pm 10%, ripple 150mVp-p The TTL signal out, PSU turn on = 4.5 \sim 5.5V; PSU turn off = -0.1 \sim 0.5V. Please refer to the Function Manual.							
	WORKING TEMP.			0.1 0.0 0.1 11000010	sion to the runotion manual.				
		-30 ~ +70°C (Refer to "Derating Curve")							
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing							
	STORAGE TEMP., HUMIDITY		condensing						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	COnsist and alloward V V 7						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle,							
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, E		<u> </u>	EN60335-1				
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC I/P-FG: 2	KVAC O/P-FG: 1.25KV/	AC .					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG: 100M	Ohms/500VDC/25°C / 70%	RH					
		Parameter	Standard		Test Level / Note				
		Conducted	EN55032 (CI	SPR32)	Class B				
	EMC EMISSION	Radiated	EN55032 (CI	SPR32)	Class B				
SAFETY &		Harmonic Current	EN61000-3-2)	Class A				
EMC		Voltage Flicker	EN61000-3-3	3					
Note.6)		EN55024 , EN61000-6-2	l .						
		Parameter	Standard		Test Level / Note				
		ESD	EN61000-4-2)	Level 3, 8KV air ; Level 2, 4KV contact				
		Radiated	EN61000-4-3		Level 3				
		EFT / Burst	EN61000-4-4		Level 3				
	EMC IMMUNITY								
		Surge	EN61000-6-2		2KV/Line-Line 4KV/Line-Earth				
		Conducted	EN61000-4-6		Level 3				
		Magnetic Field	EN61000-4-8	3	Level 4				
		Voltage Dips and Interruptions	EN61000-4-1	l1	>95% dip 0.5 periods, 30% dip 25 perio				
	MTDE		ID 000 (D-II-) 00 0 111	has asia - MU LIBBIC 0.12	>95% interruptions 250 periods				
OTUEDO	MTBF		R-332 (Bellcore) ; 69.81K	hrs min. MIL-HDBK-217	r (25 C)				
OTHERS	DIMENSION	240*115*41mm (L*W*H)							
	PACKING	1.74kg; 8pcs/14.9kg/0.74CUF							
NOTE	Ripple & noise are measure Tolerance: includes set up t Derating may be needed ur PV/PC functions when user The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p	ered a component which will be te with 1mm of thickness. The fi lease refer to "EMI testing of co	ing a 12" twisted pair-wind regulation. check the derating curve installed into a final equipinal equipment must be remponent power supplies.	e terminated with a 0.1uf & for more details. Dement. All the EMC tests a e-confirmed that it still mee " (as available on http://www.	4 47uf parallel capacitor. are been executed by mounting the unit on the test of				



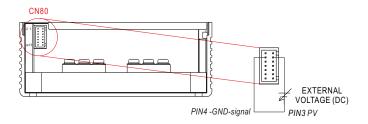


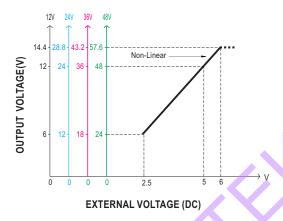


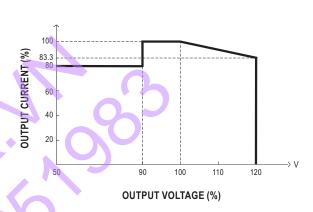
■ FUNCTION MANUAL

1.Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

💥 In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed by applying EXTERNAL VOLTAGE.



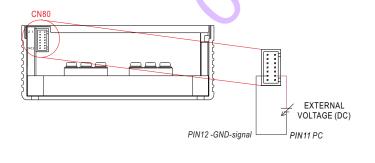


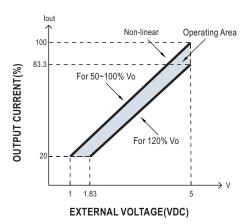


- Caution: By factory default, the Output Voltage Programming is not activated, and PV (pin1) and PV-DIS(pin2) are shorted by connector. Whenever this function is not needed to activate, as assumed in other sections' diagrams, please keep PV (pin1) and PV-DIS(pin2) shorted; otherwise the power supply will have no output.
- X Caution: When this function is needed to activate, please keep PV(pin1) and PV-DIS(pin2) opened.

2. Output Current Programming (or, PC / remote current programming / dynamic current trim)

※ The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE.



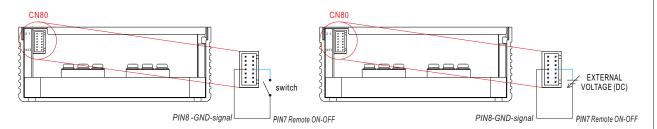


- X Caution: By factory default, the Output Current Programming is not activated, and VCCS(pin13) and PC-DIS(pin14) are shorted by connector. Whenever this function is not needed to activate, as assumed in other sections' diagrams, please keep VCCS(pin13) and PC-DIS(pin14) shorted; otherwise, the power supply will have no output.
- X Caution: When this function is needed to activate, please keep VCCS(pin13) and PV-DIS(pin14) opened.



3.Remote ON-OFF Control

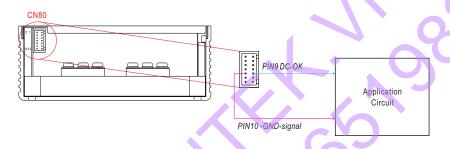
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



Remote ON-OFF	Power Supply Status
"Low" <0~0.5V or Short circuit	ON
"Hi" >2~5V or Open circuit	OFF

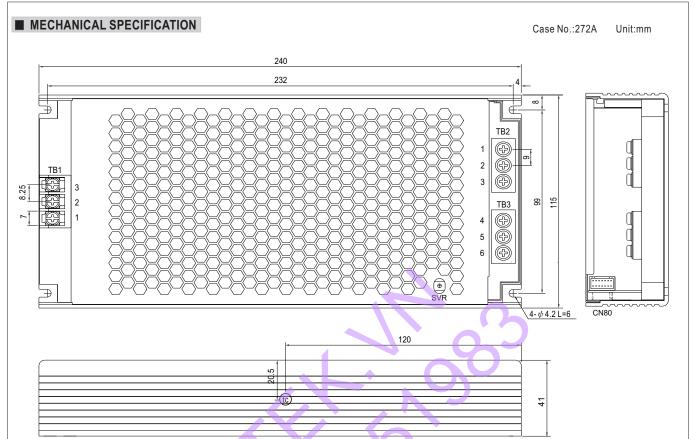
4.DC-OK Signal

DC-OK signal is a TTL level signal. The maximum sink current is 10mA and the maximum external voltage is 5.6V.



DC-OK signal	Power Supply Status		
"Hi" >4.5~5.5V	ON		
"Low" <-0.1~0.5V	OFF		





ullet (c): Max. Case Temperature

AC Input Terminal(TB1) Pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	5501	
2	AC/N	DECA T42-ES11-03	13.8Kgf-cm
3	≐	112 2011 60	

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

Pin No.	Assignment	Terminal	Max mounting torque
1,2,3	+V	(MW)	8Kgf-cm
4,5,6	-V	NÈL-400	orgi-cili

*Control Pin No. Assignment(CN80): HRS DF11-14DP-2DS or equivalent



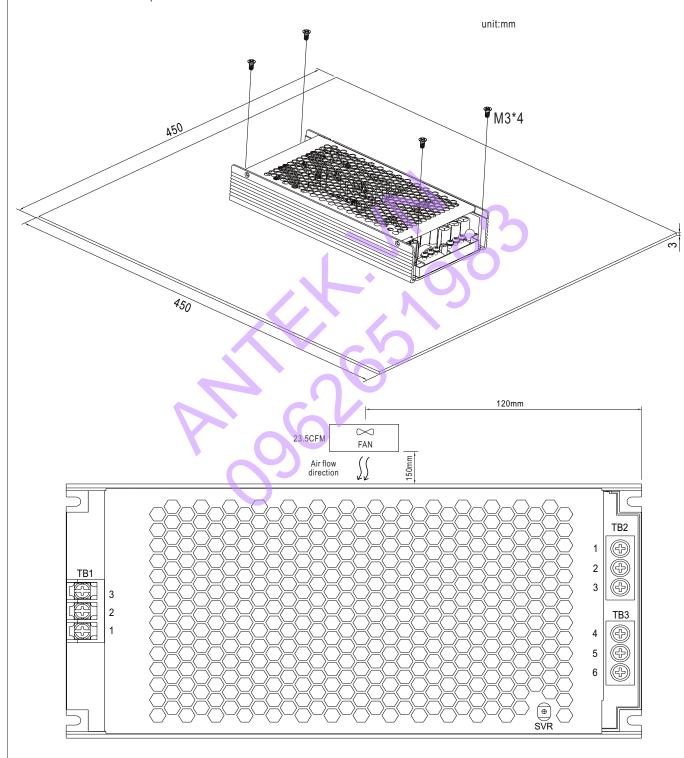
Mating Housing	HRS DF11-14DS or equivalent
Terminal	HRS DF11-**SC or equivalent

Pin No.	Function	Description		
1,3	PV	Connection for output voltage programming.		
2	PV-DIS	Short connecting between PV (pin1) and PV-DIS (pin2) if output voltage programming function is not activated.		
4,8,10,12	GND (Signal)	Negative output voltage signal.		
	+12V-AUX	Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX (pin6).		
5	+12V-AUX	The maximum load current is 0.5A. This output is not controlled by "Remote ON-OFF".		
6	GND-AUX	Auxiliary voltage output GND.		
0	GND-AUX	The signal return is isolated from the output terminals (+V & -V).		
7	Remote	The unit can turn the output ON/OFF by electrical signal or dry contact between Remote ON/OFF.		
1	ON-OFF	Short (0 ~ 0.5V): Power ON; Open (2 ~ 5V): Power OFF; The maximum input voltage is 5.5V.		
		Low (-0.1 \sim 0.5V): When the Vout \leq 80% \pm 5%.		
9	DC-OK	High (4.5 ~ 5.5V): When Vout≧80%±5%.		
		The maximum sink current is 10mA and only for output.		
11	PC	Connection for constant current level programming.		
13	Vccs	Positive output voltage signal.		
14	PC-DIS	Short connecting between Vccs (pin13) and PC-DIS (pin14) if output current programming function is not activated.		



Operate with additional aluminum plate and fan

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-1000 series can be installed onto an aluminum plate (or the cabinet of the same size) on the bottom or apply forced air cooled solution. The size of the suggested aluminum plate and configuration of fan are 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-1000 series must be firmly mounted at the center of the aluminum plate.



■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html













- Slim and Low profile (41mm)
- · Fanless and conduction-cooled design
- · Built-in active PFC function
- -30~+70°C working temperature
- Output voltage and constant current level programmable
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in remote ON-OFF control
- · DC OK active signal
- Operating altitude up to 5000 meter (Note.7)
- · LED indicator for power on
- Optional PMBus or CANBus protocol
- 5 years warranty

Household Automa











■ Certificates

Safety: UL/EN62368-1EMC: EN55032 / 55024

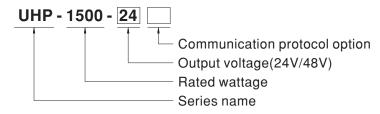
Applications

- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- · Test and measurement instrument
- · Laser related machine
- · Charging related equipment
- · Household appliances

■ Description

UHP-1500 series is a 1500W single-output slim type power supply with 41mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 24V and 48V. In addition to the high efficiency up to 96%, that the whole series operates from -30° C \sim 70°C under air convection without fan. UHP-1500 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV EN62368-1, UL62368-1, and the design refers to EN61558-1 and EN60335-1. UHP-1500 series serves as a high performance power supply solution for various industrial applications.

Model Encoding

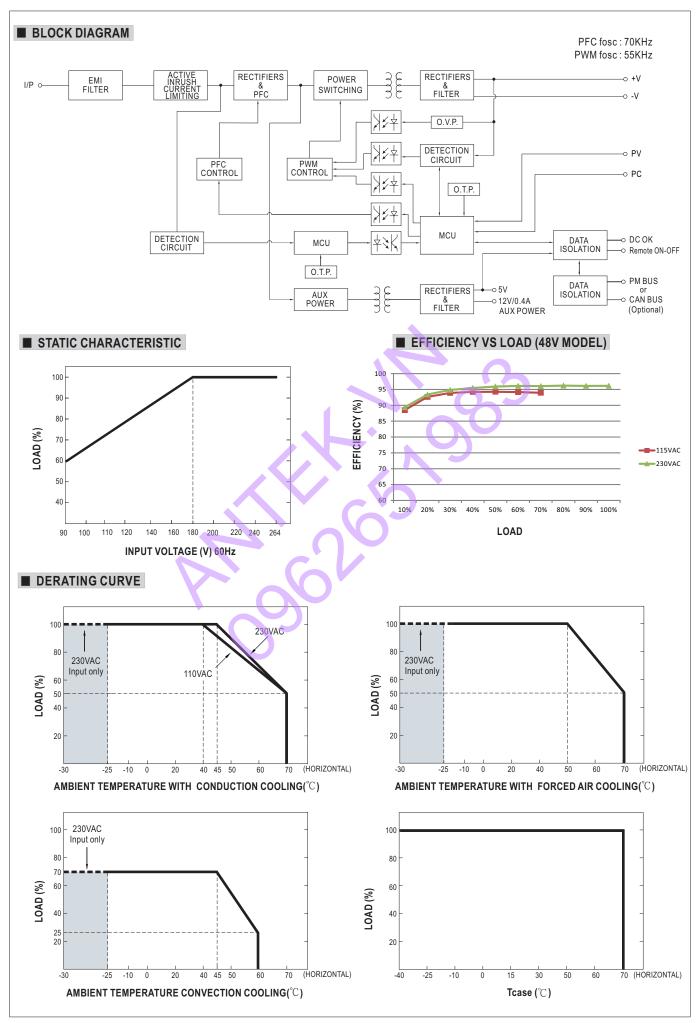


Type	Communication Protocol	Note
Blank	None	In Stock
PM	PMBus protocol	By request
CAN	CANBus protocol	By request



MODEL		UHP-1500-24 UHP-1500-48				
	DC VOLTAGE	24V		48V		
	RATED CURRENT	62.5A		31.5A		
	RATED POWER(convection)	1500W		1512W		
	RIPPLE & NOISE (max.) Note.2	240mVp-p		350mVp-p		
		By built-in potentiometer, SVR				
OUTPUT	VOLTAGE ADJ. RANGE	24~28.8V		48~57.6V		
	VOLTAGE TOLERANCE Note.3			±1.0%		
	LINE REGULATION	±0.5%		±0.5%		
	LOAD REGULATION	±0.5% ±0.5%				
	SETUP, RISE TIME	1800ms, 60ms/230VAC at full load				
	HOLD UP TIME (Typ.)	16ms/230VAC at 75% load 10ms/230V	AC at full load			
	VOLTAGE RANGE Note.4	90 ~ 264VAC 250 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF≥0.95/230VAC at full load				
NPUT	EFFICIENCY (Typ.)	95% 96%				
	AC CURRENT (Typ.)	8A/230VAC				
	INRUSH CURRENT (Typ.)	Cold start 60A/230VAC				
	LEAKAGE CURRENT	<0.75mA / 240VAC				
		105~125% rated output power				
	OVERLOAD	Protection type : Constant current limiting,	unit will shutdown after	5 sec re-nower on to	recover	
	SHORT CIRCUIT	Constant current limiting, unit will shutdow		•	Tecover.	
PROTECTION	SHORT CIRCUIT	30 ~ 35V		60 ~ 67V		
	OVER VOLTAGE			50~677		
		Protection type :Shut down O/P voltage,re-				
	OVER TEMPERATURE	Protection type :Shut down O/P voltage, re			down	
	OUTPUT VOLTAGE	Adjustment of output voltage is allowable	e to 50 ~ 120% of nomir	al output voltage		
		Please refer to the Function Manual.				
FUNCTION	OUTPUT CURRENT	Adjustment of constant current level is allowable to 20 ~ 100% of rated current.				
		Please refer to the Function Manual. Power ON: Short circuit Power OFF: Open circuit				
	REMOTE ON/OFF CONTROL					
	AUXILIARY POWER	12V @ 0.4A tolerance ±10%, ripple=150mVp-p				
	DC-OK SIGNAL	The TTL signal out, PSU turn on = 4.4 ~ 5.5V; PSU turn off = -0.5 ~ 0.5V. Please refer to the Function Manual.				
	WORKING TEMP.	-30 ~ +70 ℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	$-40 \sim +85$ °C, $10 \sim 95$ % RH non-condensing	g			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL62368-1,TUV EN62368-1, EAC TP TC 00	04 approved; Design refe	rs to EN61558-1, EN6	0335-1(by request)	
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/F	P-FG:1.25KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500V	/DC/25°C / 70%RH			
		Parameter	Standard		Test Level / Note	
		Conducted	EN55032 (CISPR32)		Class B	
	EMC EMISSION	Radiated	EN55032 (CISPR32)		Class A	
	EIVIC EIVII33ION	Harmonic Current	EN61000-3-2		Class A	
SAFETY &						
EMC		Voltage Flicker	EN61000-3-3			
(Note.6)		EN55024 , EN61000-6-2	1			
		Parameter	Standard		Test Level / Note	
		ESD	EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact	
		Radiated	EN61000-4-3		Level 3	
	EMC IMMUNITY	EFT / Burst	EN61000-4-4		Level 3	
		Surge	EN61000-6-2		2KV/Line-Line 4KV/Line-Earth	
		Conducted	EN61000-4-6		Level 3	
		Magnetic Field	EN61000-4-8		Level 4	
		Voltage Dips and Interruptions	EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 perio >95% interruptions 250 periods	
	MTBF	181.47K hrs min. Telcordia SR-332 (Bel	Ilcore); 56.72K hrs min.	MIL-HDBK-217F (
OTHERS	DIMENSION	290*140*41mm (L*W*H)		IIIL HODICZIII (
		2.51kg; 6pcs/16.06kg/0.86CUFT				
	PACKING	0 1				
NOTE	Ripple & noise are measure Tolerance :includes set up t Derating may be needed ur PV/PC functions when user The power supply is conside a 720mm*360mm metal pla perform these EMC tests, p	Imeters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Ince includes set up tolerance, line regulation and load regulation. g may be needed under low input voltages. Please check the derating curve for more details. functions when users do not use SVR. wer supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on in 100 mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to in these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) iblient 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).				



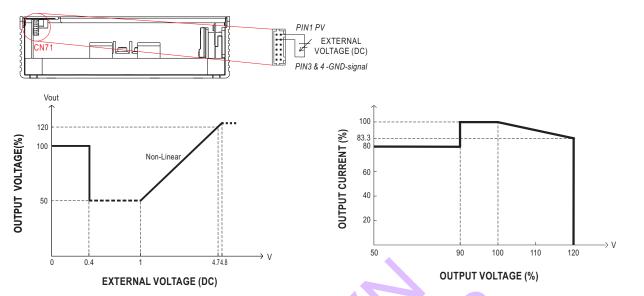




■ FUNCTION MANUAL

1.Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

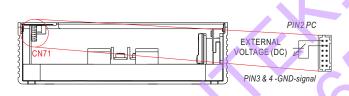
iii In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed by applying EXTERNAL VOLTAGE.

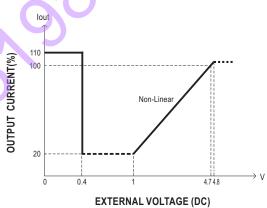


The rated current should change with the Output Voltage Programming accordingly.

2. Constant Current Programming (or, PC / remote current programming / dynamic current trim)

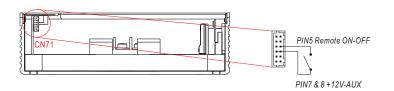
※ The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE





3.Remote ON-OFF Control

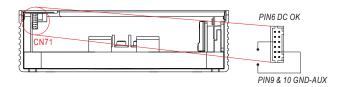
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



Remote ON-OFF	Power Supply Status
Short circuit	ON
Open circuit	OFF

4.DC-OK Signal

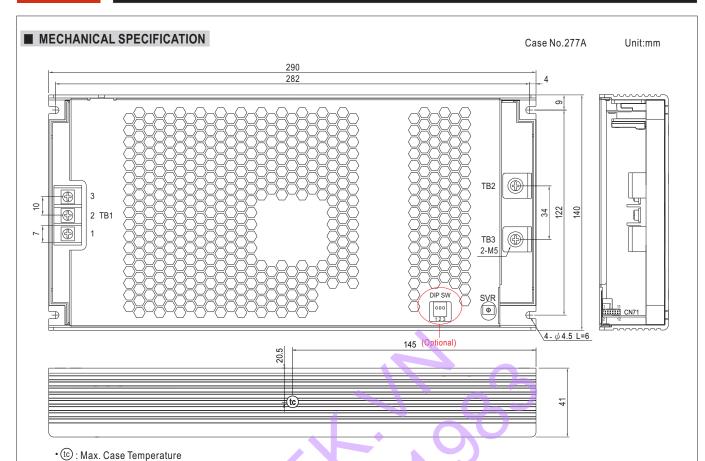
DC-OK signal is a TTL level signal. The maximum sink current is 10mA and the maximum external voltage is 5.6V.



DC-OK signal	Power Supply Status
"High" >4.4~5.5V	ON
"Low" <-0.5~0.5V	OFF

5.PMBus Communication Interface

UHP-1500 supports PMBus Rev. 1.1 with maximum 100KHz bus speed, allowing information reading, status monitoring, output trimming, etc. For details, please refer to the Function Manual.



AC Input Terminal(TB1) Pin NO. Assignment

		,	,
Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L		
2	AC/N	DECAT25	18Kgf-cm
3	÷		

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

1	Pin No.	Assignment	Terminal	Max mounting torque
١	TB2	+V	(MW)	
1	TB3	-V	HS455A	8Kgf-cm

₩DIP SW:

Pin No.	Function	Description
1	A0	
2	A1	PMBus / CANBus interface address switch.
3	A2	

*Control Pin No. Assignment(CN71): HRS DF11-12DP-2DS or equivalent



Mating Housing	HRS DF11-12DS or equivalent	
Terminal	HRS DF11-**SC or equivalent	

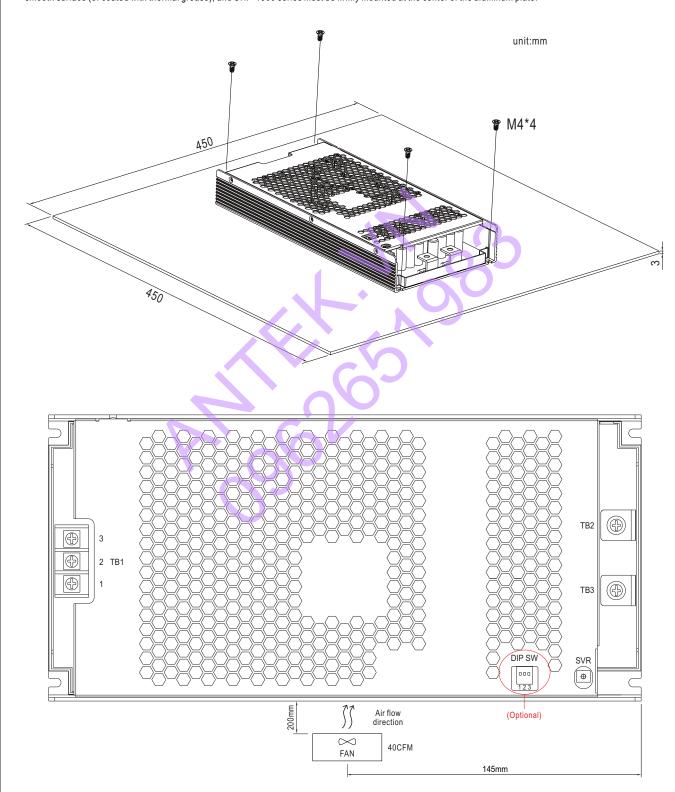
Pin No.	Function	Description
1	PV	Connection for output voltage programming.(Note1)
2	PC	Connection for constant current level programming.(Note.1)
3,4	GND (Signal)	Negative output voltage signal.
5	Remote	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and 12-AUX.(Note.2)
Э	ON-OFF	Short (10.8 \sim 13.2V): Power ON; Open(0 \sim 0.5V): Power OFF; The maximum input voltage is 13.2V
		Low (-0.5 ~ 0.5V) : When the Vout \leq 80% \pm 6%.
6	DC-OK	High (4.4 ~ 5.5V): When Vout \ge 80% \pm 6%.
		The maximum sourcing current is 10mA and only for output. (Note. 2)
7 0	7,8 +12V-AUX	Auxiliary voltage output, 10.6~13.2V, referenced to GND-AUX (pin3 & 4).
7,0		The maximum load current is 0.4A. This output is not controlled by "Remote ON-OFF".
9,10	GND-AUX	Auxiliary voltage output GND.
9,10		The signal return is isolated from the output terminals (+V & -V).
11	SDA	For PMBus model: Serial Data used in the PMBus interface. (Note.2)
11	CANH	For CANBus model: Data line used in CANBus interface. (Note.2)
12	SCL	For PMBus model: Serial Clock used in the PMBus interface. (Note.2)
12	CANL	For CANBus model: Data line used in CANBus interface. (Note.2)

Note1: Non-isolated signal, referenced to [GND(signal)]. Note2: Isolated signal, referenced to GND-AUX.



Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-1500 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-1500 series must be firmly mounted at the center of the aluminum plate.



■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html













- Slim and Low profile (60mm)
- · Fanless and conduction-cooled design
- · Built-in active PFC function
- -30~+70°C working temperature
- Output voltage and constant current level programmable
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in remote ON-OFF control
- · DC OK active signal
- Operating altitude up to 5000 meter (Note.7)
- LED indicator for power on
- Optional PMBus or CANBus protocol
- 5 years warranty













Certificates

Safety: UL/EN62368-1EMC: EN55032 / 55024

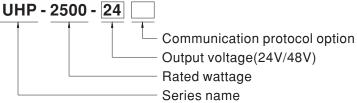
Applications

- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- · Test and measurement instrument
- · Laser related machine
- · Charging related equipment
- · Household appliances

■ Description

UHP-2500 series is a 2500W single-output slim type power supply with 60mm of low profile design. Adopting the full range $90\sim264$ VAC input, the entire series provides an output voltage line of 24V and 48V. In addition to the high efficiency up to 96%, that the whole series operates from $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$ under air convection without fan. UHP-2500 has the complete protection functions and 2G anti-vibration capability; It is complied with the international safety regulations such as TUV EN62368-1, UL62368-1, and design refers to EN61558-1 and EN60335-1. UHP-2500 series serves as a high performance power supply solution for various industrial applications.

Model Encoding

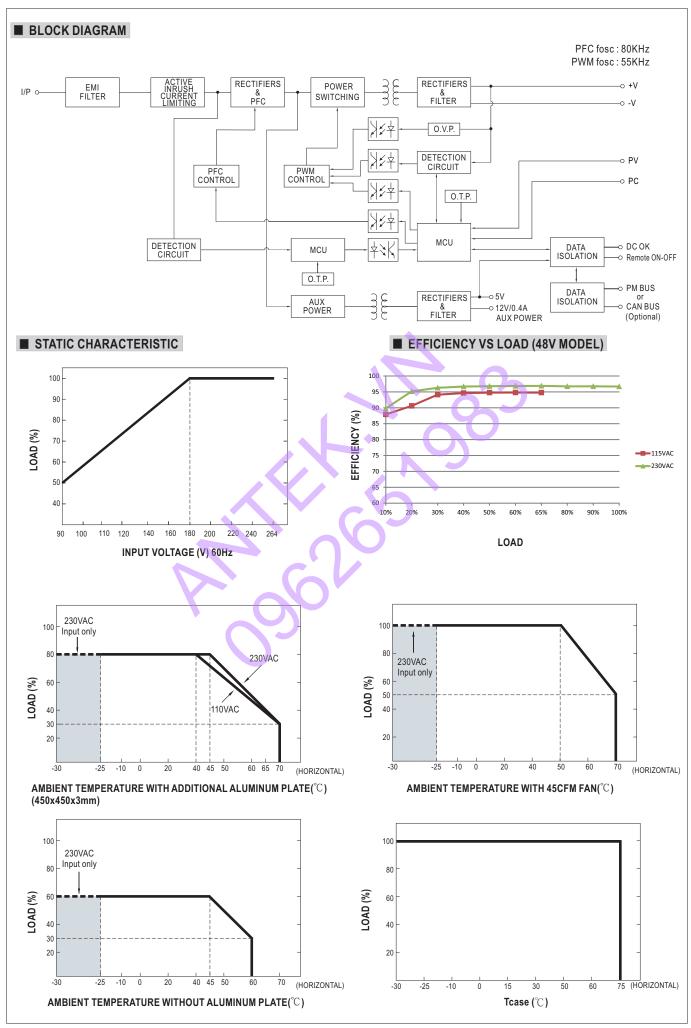


Type	Communication Protocol	Note
Blank	None	In Stock
PM	PMBus protocol	By request
CAN	CANBus protocol	By request



MODEL		UHP-2500-24		UHP-2500-48		
	DC VOLTAGE	24V		48V		
	RATED CURRENT	104.2A		52.1A		
		2500.8W		2500.8W		
	RATED POWER(convection) RIPPLE & NOISE (max.) Note.2					
	RIPPLE & NOISE (IIIax.) Note.2	<u> </u>		480mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE	By built-in potentiometer, SVR		48~57.6V		
		24~28.8V				
	VOLTAGE TOLERANCE Note.3	±1.0% ±1.0%				
	LINE REGULATION	±0.5%		±0.5%		
	LOAD REGULATION	±1.0%		±0.5%		
	SETUP, RISE TIME	1800ms, 60ms/230VAC at full load				
	HOLD UP TIME (Typ.)		VAC at full load			
		90 ~ 264VAC 250 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
INDUT	POWER FACTOR (Typ.)	PF≥0.95/230VAC at full load				
INPUT	EFFICIENCY (Typ.)	95%		96%		
	AC CURRENT (Typ.)	14.3A/230VAC				
	INRUSH CURRENT (Typ.)	Cold start 60A/230VAC				
	LEAKAGE CURRENT	<0.75mA / 240VAC				
	01/501 040	105 ~ 115% rated output power				
DDOTECTION	OVERLOAD	Protection type: Constant current limiting,	unit will shutdown afte	5 sec. re-power on to	recover.	
PROTECTION	OVERVOLTACE	30 ~ 35V		60 ~ 67V		
	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				
	OUTPUT VOLTAGE	Adjustment of output voltage is allowable	e to 50 ~ 120% of nomi	nal output voltage		
	PROGRAMMABLE(PV) Note 5	Please refer to the Function Manual.				
FUNCTION	OUTPUT CURRENT	Adjustment of constant current level is	allowable to 20 ~ 100	% of rated current.		
FUNCTION	. ,	Please refer to the Function Manual.				
	REMOTE ON/OFF CONTROL	Power ON: Short circuit Power OFF: Open circuit				
	AUXILIARY POWER	12V@0.4A tolerance±10%, ripple 150mVp-p				
	DC-OK SIGNAL	The TTL signal out, PSU turn on = 4.5 ~ 5	6.5V; PSU turn off = -0	.5 ~ 0.5V. Please refe	er to the Function Manual.	
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC (004 approved; design r	efers to EN61558-1, E	N60335-1(by request)	
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/F	P-FG:1.25KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500V	'DC/25°C / 70%RH			
		Parameter	Standard		Test Level / Note	
		Conducted	EN55032 (CISPR32)		Class B	
	EMC EMISSION	Radiated	EN55032 (CISPR32)		Class A	
		Harmonic Current	EN61000-3-2		Class A	
SAFETY &		Voltage Flicker	EN61000-3-3			
		EN55024 , EN61000-6-2				
EMC		Parameter	Standard		Test Level / Note	
(Note.6)		ESD	EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact	
		Radiated	EN61000-4-3		Level 3	
	EMC IMMUNITY	EFT / Burst	EN61000-4-4		Level 3	
	EMC IMMUNITY	Surge	EN61000-6-2		2KV/Line-Line 4KV/Line-Earth	
		Conducted	EN61000-4-6		Level 3	
		Magnetic Field	EN61000-4-8		Level 4	
		Voltage Dips and Interruptions	EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 period	
	MTBF		llcore); 48.91K hrs mir	ı. MIL-HDBK-217F	>95% interruptions 250 periods (25°C)	
OTHERS	DIMENSION	310*140*60mm (L*W*H)	, , 1010 17(110 7111			
-	PACKING	3.5kg; 4pcs/15kg/1.76CUFT				
NOTE		0. 1	out rated load and 25°	C of ambient tempora	ature	
NOTE	Ripple & noise are measure Tolerance includes set up to the desired of t	specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. leasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. set up tolerance, line regulation and load regulation. Ided under low input voltages. Please check the derating curve for more details. In users do not use SVR. Considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on netal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) atture derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).				



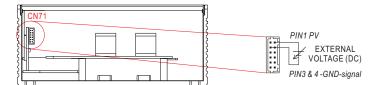


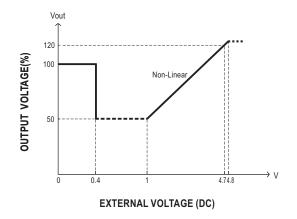


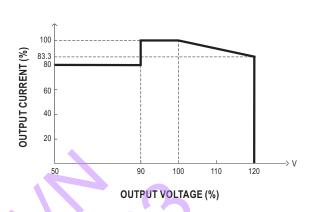
■ FUNCTION MANUAL

1.Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

X In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed by applying EXTERNAL VOLTAGE.



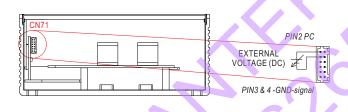


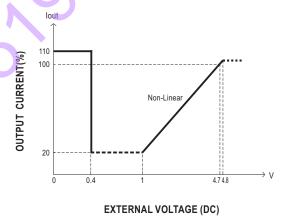


The rated current should change with the Output Voltage Programming accordingly.

2. Constant Current Programming (or, PC / remote current programming / dynamic current trim)

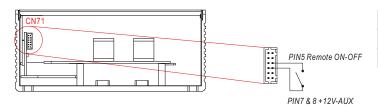
※ The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE





3.Remote ON-OFF Control

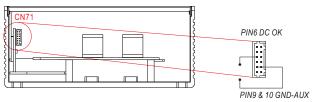
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



Remote ON-OFF	Power Supply Status
Short circuit	ON
Open circuit	OFF

4.DC-OK Signal

DC-OK signal is a TTL level signal. The maximum sourcing current is 10mA.

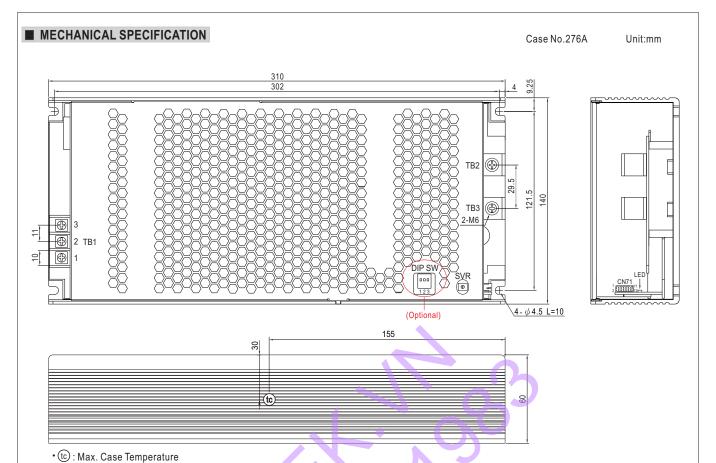


DC-OK signal	Power Supply Status
"High" >4.5~5.5V	ON
"Low" <-0.5~0.5V	OFF

5.PMBus Communication Interface

UHP-2500 supports PMBus Rev. 1.1 with maximum 100KHz bus speed, allowing information reading, status monitoring, output trimming, etc. For details, please refer to the Function Manual.





AC Input Terminal(TB1) Pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L		
2	AC/N	DECAT36	13Kgf-cm
3	T		

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

Pin No.	Assignment	Terminal	Max mounting torque
TB2	+V	(MW)	
TB3	-V	HS147	8Kgf-cm

※DIP SW(Optional):

Pin No.	Function	Description
1	A0	
2	A1	PMBus / CANBus interface address switch.
3	Α2	

**Control Pin No. Assignment(CN71): HRS DF11-12DP-2DS or equivalent



Mating Housing	HRS DF11-12DS or equivalent	
Terminal	HRS DF11-**SC or equivalent	

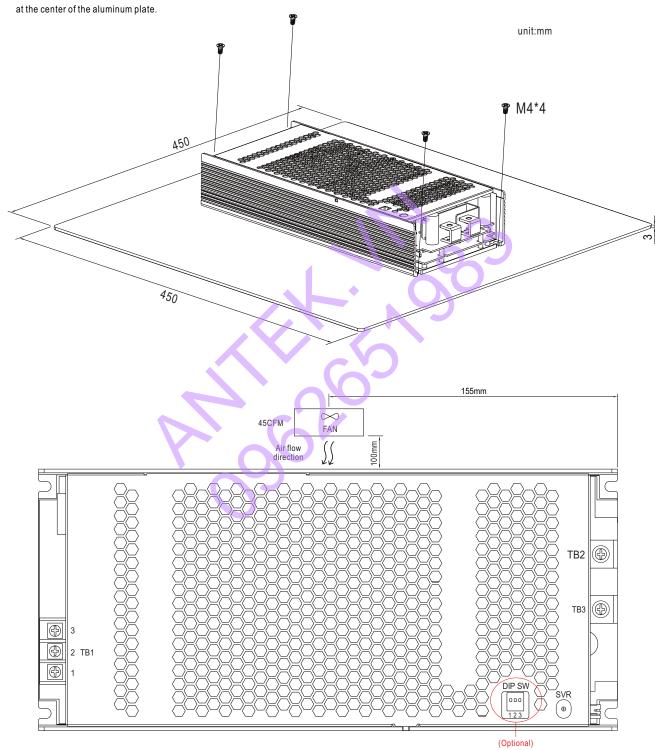
Pin No.	Function	Description	
1	PV	Connection for output voltage programming.(Note1)	
2	PC	Connection for constant current level programming.(Note.1)	
3,4 GND (Signal) Negative output voltage signal.		Negative output voltage signal.	
5	Remote	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and 12-AUX.(Note.2)	
5	ON-OFF	Short (10.8 ~ 13.2V): Power ON; Open(0 ~ 0.5V): Power OFF; The maximum input voltage is 13.2V	
		Low (-0.5 ~ 0.5V): When the Vout \leq 77% \pm 6%.	
6	DC-OK	High (4.5 ~ 5.5V): When Vout \ge 80% \pm 6%.	
		The maximum sourcing current is 10mA and only for output. (Note. 2)	
7,8	7.8 +12V-AUX	Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX (pin3 & 4).	
1,0	TIZV-AUX	The maximum load current is 0.4A. This output is not controlled by "Remote ON-OFF".	
9,10	0 GND-AUX	Auxiliary voltage output GND.	
9,10		The signal return is isolated from the output terminals (+V & -V).	
11	SDA	For PMBus model: Serial Data used in the PMBus interface. (Note.2)	
11	CANH	For CANBus model: Data line used in CANBus interface. (Note.2)	
12	SCL	For PMBus model: Serial Clock used in the PMBus interface. (Note.2)	
12	CANL	For CANBus model: Data line used in CANBus interface. (Note.2)	

Note1: Non-isolated signal, referenced to [GND(signal)]. Note2: Isolated signal, referenced to GND-AUX.



Operate with additional aluminum plate and fan

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-2500 series can be installed onto an aluminum plate(or the cabinet of the same size) on the bottom or apply forced air cooled solution. The size of the suggested aluminum plate and configuration of fan are 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-2500 series must be firmly mounted at the center of the aluminum plate.



■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html