

MEAN WELL UHP-1500-HV Series 1500W Conduction Cooling with High Voltage Output Instruction Manual

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1500W Conduction Cooling with High Voltage Output

UHP-1500-HV series















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Features

- High voltage output (115/230/380V)
- · Fanless and conduction-cooled design
- Slim and 1U Low profile (41mm)
- · Built-in active PFC function
- DC 12V/0.4A auxiliary power or apparatus
- Output voltage and constant current level programmable(PV/PC)
- Protections: Short circuit / Over load / Over voltage / Over temperature
- · Built-in remote ON-OFF control and DC OK signal
- Operating altitude up to 2000 meter (E type Note.6, Blank/PM/CAN type Note.7)
- · LED indicator for power on
- Optional PMBus or CANBus protocol
- 5 years warranty

Applications

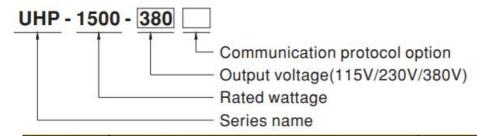
- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- · Test and measurement instrument
- · Laser related machine
- Charging related equipment
- · DC centralized bus(Lighting)

Description

UHP-1500 series is a 1500W single-output slim type power supply with 1U 41mm of low profile design. Adopting the full range 90~264VAC input, the entire series provides an output voltage line of 115V/230V and 380V. In

addition to the high efficiency up to 95.5%, that the whole series operates from -30 \sim 70 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 BS EN/EN62368-1, UL62368-1, and the design refers to BS EN/EN61558-1 and BS EN/EN60335-1. UHP-1500 series serves as a high performance power supply solution for various industrial and DC centralized bus applications.

Model Encoding



Type	Communication Protocol	Note
Blank	with programming PV/PC	In Stock
E	DC 380V only without PV/PC	In Stock
PM	PMBus protocol with PV/PC	By request
CAN	CANBus protocol with PV/PC	By request

Note: E type without PV/PC and communication protocol.

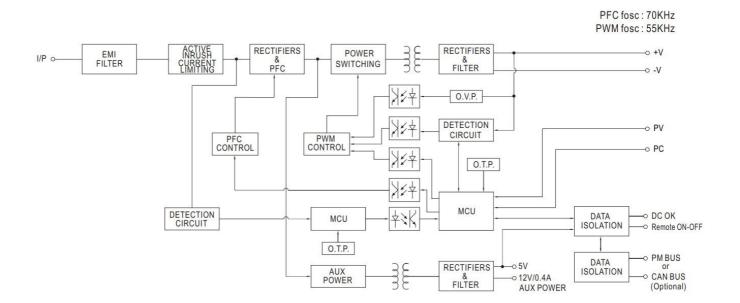
SPECIFICATION (E type)

MODEL		UHP-1500-380E			
	DC VOLTAGE(DEFAULT)	380V			
	RATED CURRENT (Max.)	3.95A			
	RATED POWER (Max.)(Note.7)	1501W			
	RIPPLE & NOISE (Max.) Note.2	3800mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE	By built-in potentiometer, SVR			
OUTFUT	VOLIAGE ADJ. RANGE	350~420V			
	VOLTAGE TOLERANCE Note.3	±1.0%			
	LINE REGULATION	±0.5%			
	LOAD REGULATION	±0.5%			
	SETUP, RISE TIME	1800ms, 60ms/230VAC at full load			
	HOLD UP TIME (Typ.)	16ms/230VAC at 75% load 10ms/230VAC 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			
INPUT	EFFICIENCY (Typ.)	95.5%			
	AC CURRENT (Typ.)	8A/230VAC			
	INRUSH CURRENT (Typ.)	Cold start 60A/230VAC			
	LEAKAGE CURRENT	<0.75mA/240VAC			
	OVER LOAD	105~125% rated output power			
	OVERLOAD	Protection type: Constant current limiting, unit will shutdown after 2-5 sec, re-power on to recover.			
PROTECTION	SHORT CIRCUIT	Constant current limiting, unit will shutdown after 2-5 sec, re-power on to recover.			
TROTECTION	OVER VOLTAGE	420 ~ 460V			
		Protection type :Shut down O/P voltage,re-power on to recover			
2.77.2.2.2.2.2.	OVER TEMPERATURE	Protection type :Shut down O/P voltage, recovers automatically after temperature goes down			
FUNCTION	REMOTE ON/OFF CONTROL	Power ON: Short circuit Power OFF: Open circuit			
	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			

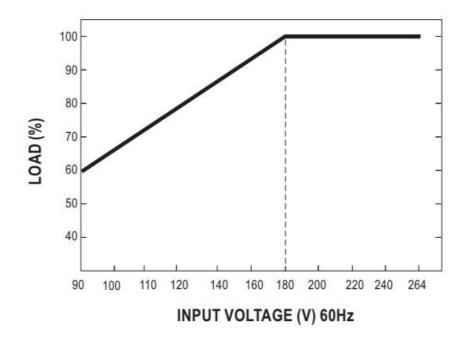
	SAFETY STANDARDS		TP TC 004 approved; Design refers to BS EN/6	EN61558-1, BS EN/EN60335-1		
-	WITHSTAND VOLTAGE Note 8		72 (ACC) 87 (AB) 1.00 (AB) 2.00 (AB)			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500		Test aval / Note		
SAFETY &		Parameter	Standard	Test Level / Note		
		Conducted	BS EN/EN55032 (CISPR32)	Class B		
	EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A		
		Harmonic Current	BS EN/EN61000-3-2	Class A		
EMC		Voltage Flicker	BS EN/EN61000-3-3			
(Note.6)		BS EN/EN55035 , BS EN/EN61000-6-2				
		Parameter	Standard	Test Level / Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 3		
	EMC IMMUNITY	EFT / Burst	BS EN/EN61000-4-4	Level 3		
		Surge	BS EN/EN61000-6-2	2KV/Line-Line 4KV/Line-Earth		
		Conducted	BS EN/EN61000-4-6	Level 3		
		Magnetic Field	BS EN/EN61000-4-8	Level 4		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods		
OTHERS	MTBF		sellcore); 56.72K hrs min. MIL-HDBK-217F	(25°C)		
OTHERS	DIMENSION	290*140*41mm (L*W*H)				
NOTE	PACKING	2.51kg; 6pcs/16.06kg/0.86CUFT				
	6. The ambient temperature degree 7. Refer to derating curve.8. During with standards voltage	erating of 3.5° C/1000m with fanless mode e and isolation resistance testing, the scre	power supplies." (as available on http://www.els and of 5°C/1000m with fan models for op w "A" shall be temporarily removed, and shall be https://www.meanwell.com/serviceDisclaims	perating altitude higher than 2000m(6500ft) be istalled back after the testing.		
MODEL		UHP-1500-115	UHP-1500-230	UHP-1500-380		
1977.111	DC VOLTAGE(DEFAULT)	115V	230V	380V		
1	CURRENT (FACTORY DEFAULT)	13.05A	6.52A	3.95A		
	RATED CURRENT (Max.)	13.05A	6.95A	4.5A		
	POWER (FACTORY DEFAULT)	1500.75W	1500W	1500W		
	RATED POWER (Max.)(Note.9)	1500.75W	1501.2W	1503W		
	RIPPLE & NOISE (Max.) Note.2	1150mVp-p	2300mVp-p	3800mVp-p		
	FULL POWER VOLTAGE RANGE	115~138V	216~260V	334~400V		
OUTPUT		By built-in potentiometer, SVR				
OUTPUT	VOLTAGE ADJ. RANGE		170-2601/			
ОИТРИТ	8 187 187	90~138V	170~260V	260~400V		
ОИТРИТ	VOLTAGE TOLERANCE Note.3	90~138V ±1.0%	±1.0%	260~400V ±1.0%		
OUTPUT	VOLTAGE TOLERANCE Note.3 LINE REGULATION	90~138V ±1.0% ±0.5%	±1.0% ±0.5%	260~400V ±1.0% ±0.5%		
OUTPUT	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION	90~138V ±1.0% ±0.5% ±0.5%	±1.0%	260~400V ±1.0%		
ОИТРИТ	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load	±1.0% ±0.5% ±0.5%	260~400V ±1.0% ±0.5%		
ОИТРИТ	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.)	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230VAC	±1.0% ±0.5%	260~400V ±1.0% ±0.5%		
ОИТРИТ	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.)	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load	±1.0% ±0.5% ±0.5%	260~400V ±1.0% ±0.5%		
	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230V/ 90~264VAC 250~370VDC	±1.0% ±0.5% ±0.5%	260~400V ±1.0% ±0.5%		
OUTPUT	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230V/ 90~264VAC 250~370VDC 47~63Hz	±1.0% ±0.5% ±0.5%	260~400V ±1.0% ±0.5%		
	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.)	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230V/ 90~264VAC 250~370VDC 47~63Hz PF≥0.95/230VAC at full load	±1.0% ±0.5% ±0.5% AC at full load	260~400V ±1.0% ±0.5% ±0.5%		
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	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.)	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230V/ 90 ~ 264VAC 250 ~ 370VDC 47 ~ 63Hz PF≥0.95/230VAC at full load 95% 8A/230VAC	±1.0% ±0.5% ±0.5% AC at full load	260~400V ±1.0% ±0.5% ±0.5%		
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INPUT	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230V/ 90 ~ 264VAC 250 ~ 370VDC 47 ~ 63Hz PF ≥0.95/230VAC at full load 95% 8A/230VAC Cold start 60A/230VAC <0.75mA / 240VAC 105~125% rated output power Protection type : Constant current limiting,	±1.0% ±0.5% ±0.5% AC at full load 95% unit will shutdown after 5 sec, re-power on to reco	260~400V ±1.0% ±0.5% ±0.5%		
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INPUT	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD SHORT CIRCUIT OVER VOLTAGE OUTPUT VOLTAGE PROGRAMMABLE(PV) Note 5 OUTPUT CURRENT	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230V/ 90 ~ 264VAC 250 ~ 370VDC 47 ~ 63Hz PF≥0.95/230VAC at full load 95% 8A/230VAC Cold start 60A/230VAC <0.75mA / 240VAC 105~125% rated output power Protection type: Constant current limiting, Constant current limiting, unit will shutdow 145 ~175V Protection type: Shut down O/P voltage, re- Protection type: Shut down O/P voltage, re- Adjustment of output voltage is allowable Please refer to the Function Manual. Adjustment of constant current level is al Please refer to the Function Manual. Power ON: Short circuit Power OFF	±1.0% ±0.5% ±0.5% AC at full load 95% 95% 95% 95% 273 ~ 325V power on to recover. 273 ~ 325V power on to recover covers automatically after temperature goes down to 50 ~ 120% of nominal output voltage lowable to 20 ~ 100% of rated current. Copen circuit	260~400V ±1.0% ±0.5% ±0.5% 95.5%		
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INPUT	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD SHORT CIRCUIT OVER VOLTAGE OUTPUT VOLTAGE PROGRAMMABLE(PV) Note 5 OUTPUT CURRENT PROGRAMMABLE(PC) Note 5 REMOTE ON/OFF CONTROL	90~138V ±1.0% ±0.5% 1800ms,60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230VAC 47 ~ 63Hz PF≥0.95/230VAC at full load 95% 8A/230VAC Cold start 60A/230VAC	±1.0% ±0.5% ±0.5% AC at full load 95% 95% 95% 95% 273 ~ 325V power on to recover. 273 ~ 325V power on to recover covers automatically after temperature goes down to 50 ~ 120% of nominal output voltage lowable to 20 ~ 100% of rated current. Copen circuit	260~400V ±1.0% ±0.5% ±0.5% ±0.5%		
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INPUT	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD SHORT CIRCUIT OVER VOLTAGE OUTPUT VOLTAGE PROGRAMMABLE(PV) Note 5 OUTPUT CURRENT PROGRAMMABLE(PC) Note 5 REMOTE ON/OFF CONTROL AUXILIARY POWER DC-OK SIGNAL	90~138V ±1.0% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230VAC 47 ~ 63Hz PF≥0.95/230VAC at full load 95% 8A/230VAC Cold start 60A/230VAC	±1.0% ±0.5% ±0.5% AC at full load 95% 95% 95% 95% 95% 95% 100%	260~400V ±1.0% ±0.5% ±0.5% ±0.5%		
INPUT	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE OUTPUT VOLTAGE PROGRAMMABLE(PV) Note 5 OUTPUT CURRENT PROGRAMMABLE(PC) Note 5 REMOTE ON/OFF CONTROL AUXILIARY POWER DC-OK SIGNAL WORKING HUMIDITY STORAGE TEMP., HUMIDITY	90~138V ±1.0% ±0.5% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230VAC 47 ~ 63Hz PF≥0.95/230VAC at full load 95% 8A/230VAC Cold start 60A/230VAC -0.75mA / 240VAC 105~125% rated output power Protection type: Constant current limiting, Constant current limiting, unit will shutdow 145 ~ 175V Protection type: Shut down O/P voltage, re- P	±1.0% ±0.5% ±0.5% AC at full load 95% 95% 95% 95% 95% 95% 100%	260~400V ±1.0% ±0.5% ±0.5% ±0.5%		
PROTECTION	VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD SHORT CIRCUIT OVER VOLTAGE OUTPUT VOLTAGE PROGRAMMABLE(PV) Note 5 REMOTE ON/OFF CONTROL AUXILIARY POWER DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY	90~138V ±1.0% ±0.5% 1800ms, 60ms/230VAC at full load 16ms/230VAC at 75% load 10ms/230VAC 47 ~ 63Hz PF≥0.95/230VAC at full load 95% 8A/230VAC Cold start 60A/230VAC	±1.0% ±0.5% ±0.5% AC at full load 95% 95% 95% 95% 95% 95% 100%	260~400V ±1.0% ±0.5% ±0.5% 195.5%		

	SAFETY STANDARDS	UL62368-1,TUV BS EN/EN62368-1, EAC TP	JL62368-1,TUV BS EN/EN62368-1, EAC TP TC 004 approved; Design refers to BS EN/EN61558-1, BS EN/EN60335-1			
	WITHSTAND VOLTAGE Note 8	OVC III I/P-O/P:6KVDC I/P-FG:4KVDC	O/P-FG:4KVDC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VD	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25°C / 70%RH			
		Parameter	Standard	Test Level / Note		
		Conducted	BS EN/EN55032 (CISPR32)	Class B		
	EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A		
SAFETY &		Harmonic Current	BS EN/EN61000-3-2	Class A		
EMC		Voltage Flicker	BS EN/EN61000-3-3			
(Note.6)		BS EN/EN55035 , BS EN/EN61000-6-2				
		Parameter	Standard	Test Level / Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 3		
	EMC IMMUNITY	EFT / Burst	BS EN/EN61000-4-4	Level 3		
	Line immeriti	Surge	BS EN/EN61000-6-2	2KV/Line-Line 4KV/Line-Earth		
		Conducted	BS EN/EN61000-4-6	Level 3		
		Magnetic Field	BS EN/EN61000-4-8	Level 4		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	MTBF	181.47K hrs min. Telcordia SR-332 (Bellcore) ; 56.72K hrs min. MIL-HDBK-217F (25℃)				
OTHERS	DIMENSION	290*140*41mm (L*W*H)				
	PACKING	2.51kg; 6pcs/16.06kg/0.86CUFT				
NOTE	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. 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. PV/PC functions when users do not use SVR. 6. The power 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 a 720mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 8. During with standards voltage and isolation resistance testing, the screw "A" shall be temporarily removed, and shall be istalled back after the testing. 9. Refer to derating curve. W Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					

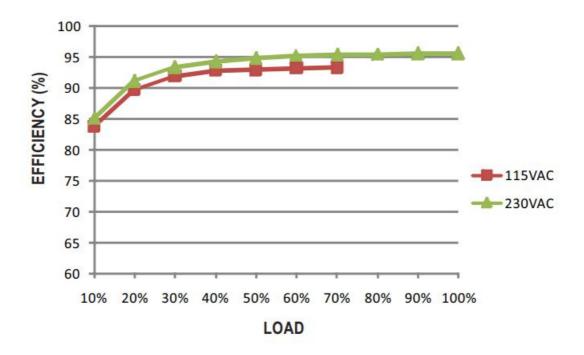
BLOCK DIAGRAM



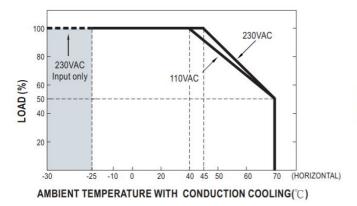
STATIC CHARACTERISTIC

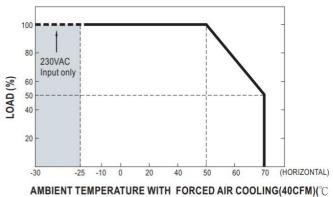


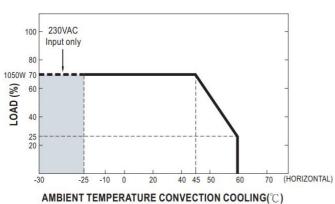
EFFICIENCY VS LOAD (380V MODEL)



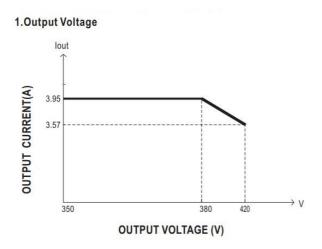
DERATING CURVE





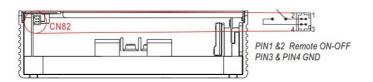


FUNCTION MANUAL (For E type)



2.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.

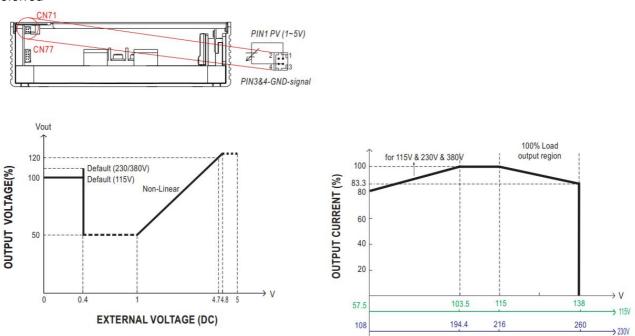


Remote ON-OFF	Power Supply Status	
Short circuit	ON	
Open circuit	OFF	

FUNCTION MANUAL (Blank/PM/CAN type)

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 to 50%~120% by applying EXTERNAL VOLTAGE. When PC/PV are used at the same time, PC is preferred



The rated current should change with the Output Voltage Programming accordingly

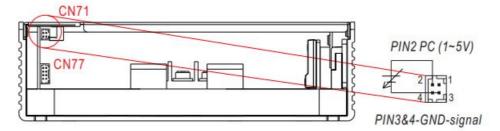
OUTPUT VOLTAGE

334

400

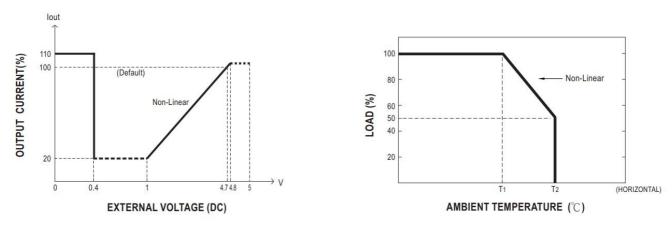
→ 380V

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.



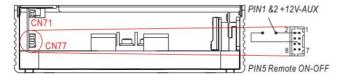
167

Covered by over temperature protection auto de-rating function works under operation either in PC mode or under control by communication protocol. T1(Typ.): Maximum ambient temperature of full load. T2(Typ.): T1+5.



3. Remote ON-OFF Control

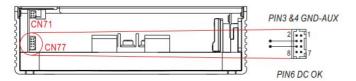
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



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.

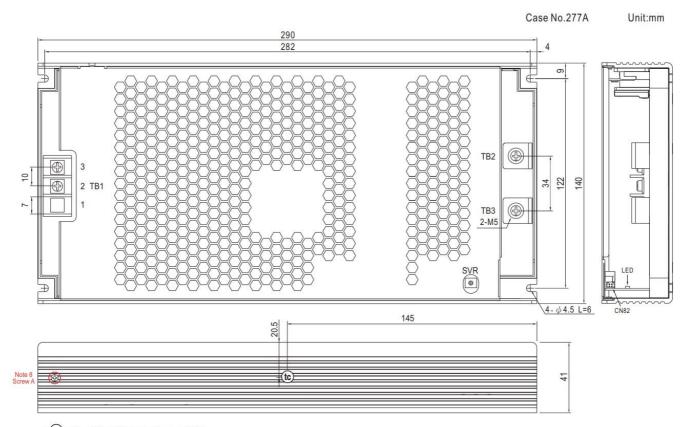


DC-OK signal	Power Supply Status	
"High" >4.4~5.5V	ON	
"Low" <-0.5~0.5V	OFF	

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.

MECHANICAL SPECIFICATION (For E type)



• tc : Max. Case Temperature < 90 °C

AC Input Terminal (TB1) Pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L		
2	AC/N	DG58S	18Kgf-cm
3	÷		

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

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

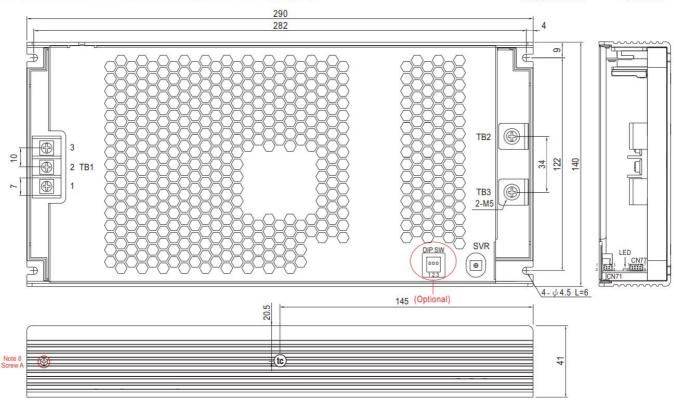
*Control Pin No. Assignment(CN82): HRS DF11-04DP-2DS or equivalent

Pin No.	Function	Description
1,2	Remote ON-OFF	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and GND
3,4	GND	The unit can turn the output on/or r by dry contact between Nemote on/or r and onb

■ MECHANICAL SPECIFICATION (Blank/PM/CAN type)

Case No.277A

Unit:mm



• tc : Max. Case Temperature < 90°C

AC Input Terminal(TB1) Pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L		
2	AC/N	DG58S	18Kgf-cm
3	±		

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

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

MDIP SW:

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

$\% Control\, Pin\, No.\, Assignment (CN71): HRS\, DF11-04DP-2DS\, or\, equivalent$

Mating Housing	HRS DF11-04DS or equivalent
Terminal	HRS DF11-**SC or equivalent

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Mating Housing	HRS DF11-08DS 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.	

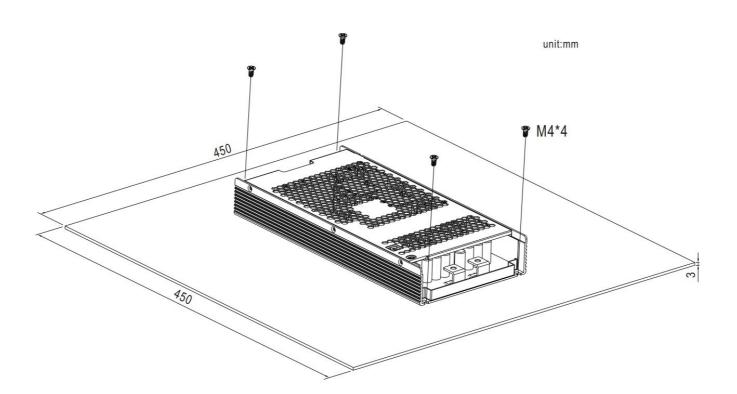
*Control Pin No. Assignment(CN77): HRS DF11-04DP-2DS or equivalent

Pin No.	Function	Description	
1.0	+12V-AUX	Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX (pin3 & 4).	
1,2	TIZV-AUX	The maximum load current is 0.4A. This output is not controlled by "Remote ON-OFF".	
3.4	GND-AUX	Auxiliary voltage output GND.	
3.4	GND-AUX	The signal return is isolated from the output terminals (+V & -V).	
5	Remote	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and 12-AUX.(Note.2)	
3	ON-OFF	Short (10.8 ~ 13.2V): Power ON; Open(-0.5 ~ 0.5V): Power OFF; The maximum input voltage is 13.2V	
	DC-OK	Low (-0.5 \sim 0.5V): When the Vout \leq 77% \pm 6%.	
6		High (4.5 ~ 5.5V): When Vout \geq 80% \pm 6%.	
		The maximum sourcing current is 10mA and only for output.(Note.2)	
7	SCL	For PMBus model: Serial Clock used in the PMBus interface. (Note.2)	
1	CANH	For CANBus model: Data line used in CANBus interface. (Note.2)	
0	SDA	For PMBus model: Serial Data used in the PMBus interface. (Note.2)	
8	CANL	For CANBus model: Data line used in CANBus interface. (Note.2)	

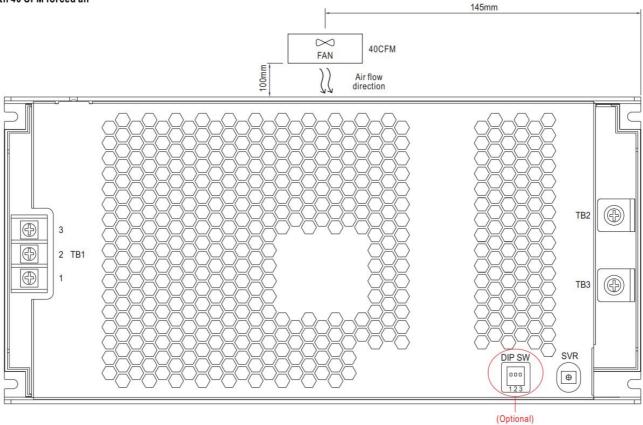
Note1: Non-isolated signal, referenced to [GND(signal)]. Note2: Isolated signal, referenced to GND-AUX.

INSTALLATION

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



2. With 40 CFM forced air



Documents / Resources



MEAN WELL UHP-1500-HV Series 1500W Conduction Cooling with High Voltage Output [

pdf] Instruction Manual

UHP-1500-HV Series 1500W Conduction Cooling with High Voltage Output, UHP-1500-HV Series, 1500W Conduction Cooling with High Voltage Output, High Voltage Output

Manuals+,