

Наличие и актуальные цены на

UHP-1500-48

https://www.mean-well.ru/store/UHP-1500-48/













Features

- 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.8)
- · 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
- Household appliances
- Power Sourcing Equipment of PoE (48V model: DC O/P range 48~57.6V)

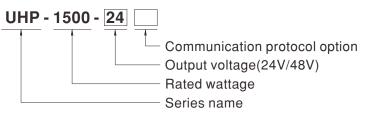
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

UHP-1500 series is a 1500W 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 24V and 48V. In addition to the high efficiency up to 96%, that the whole series operates from -30° C ~ 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 BS EN/EN62368-1, UL62368-1. UHP-1500 series serves as a high performance power supply solution for various industrial applications.

Model Encoding



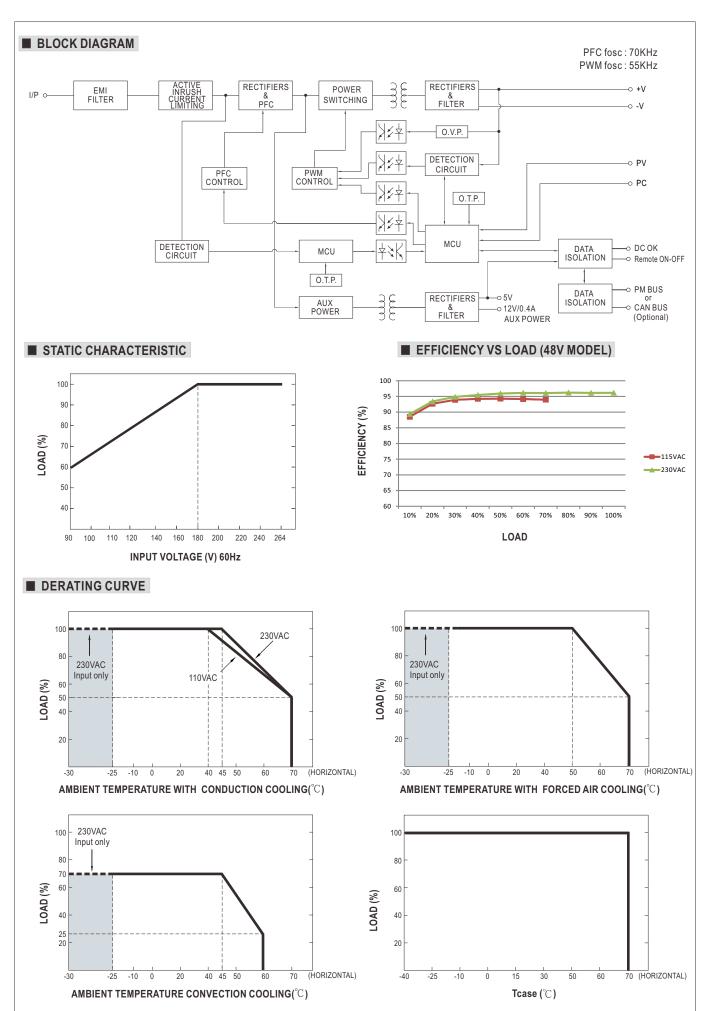
Туре	Communication Protocol	Note
Blank	None	In Stock
PM	PMBus protocol	By request
CAN	CANBus protocol	By request



SPECIFICATION

MODEL		UHP-1500-24		UHP-1500-48			
	DC VOLTAGE	24V		48V			
	RATED CURRENT	62.5A		31.5A			
	RATED POWER	1500W		1512W			
	RIPPLE & NOISE (max.) Note.2			350mVp-p			
		By built-in potentiometer, SVR					
OUTPUT	VOLTAGE ADJ. RANGE	24~28.8V		48~57.6V			
	VOLTAGE TOLERANCE Note.3			±1.0%			
		±0.5% ±0.5%					
	LOAD REGULATION	±0.5% ±0.5%					
	,	1800ms, 60ms/230VAC 1800ms, 60ms/115VAC at full load					
		16ms/230VAC at 75% load 10ms/230VAC at full load ; 16ms/115VAC at 75% load 10ms/115VAC at full load					
		90 ~ 264VAC 250 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.) Note.4						
NPUT	EFFICIENCY (Typ.)	95% 96%					
	AC CURRENT (Typ.)	11A/115VAC 8A/230VAC					
	INRUSH CURRENT (Typ.)	Cold start 30A/115VAC 60A/230VAC					
	LEAKAGE CURRENT	<0.75mA / 240VAC					
		105~125% rated current					
	OVERLOAD	Protection type : Constant current limitin	g, shut down O/P voltage	after 5 sec. After O/P v	voltage falls, re-power on to recover		
	SHORT CIRCUIT	Constant current limiting, unit will shutdo					
PROTECTION		30 ~ 35V		60 ~ 67V			
	OVER VOLTAGE	Protection type :Shut down O/P voltage,	re-nower on to recover				
	OVER TEMPERATURE	Protection type :Shut down O/P voltage,		itar tamparatura gaga d	lown		
		Adjustment of output voltage is allowat			10001		
	OUTPUT VOLTAGE PROGRAMMABLE(PV) Note 5	Please refer to the Function Manual.		nai output voitage			
	OUTPUT CURRENT						
FUNCTION	PROGRAMMABLE(PC) Note 5	Adjustment of constant current level is allowable to 20 ~ 100% of rated current. 5 Please refer to the Function Manual.					
FUNCTION	REMOTE ON/OFF CONTROL						
	AUXILIARY POWER	12V @ 0.4A tolerance ±10%, ripple=150	· ·				
	DC-OK SIGNAL	The TTL signal out, PSU turn on = $4.4 \sim$		5~0.5V Please refer	to the Eurotion Manual		
				0.00.11003010101			
	WORKING TEMP. -30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY						
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	UL62368-1, DEKRA BS EN/EN62368-1, E					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25°C/ 70%RH					
		Parameter	Standard		Test Level / Note		
		Conducted	BS EN/EN55032 (CI	SPR32)	Class B		
	EMC EMISSION	Radiated	BS EN/EN55032 (CI	SPR32)	Class A		
SAFETY &		Harmonic Current	BS EN/EN61000-3-2	2	Class A		
EMC		Voltage Flicker	BS EN/EN61000-3-3	3			
Note.7)		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		
		EFT / Burst	BS EN/EN61000-4-4		Level 3		
	EMC IMMUNITY		BS EN/EN61000-4-2		2KV/Line-Line 4KV/Line-Earth		
		Surge					
		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-		>95% dip 0.5 periods, 30% dip 25 perio		
				I	>95% interruptions 250 periods		
	MTBF		ellcore) ; 56.7K hrs min.	MIL-HDBK-217F (25)	0)		
OTHERS	DIMENSION	290*140*41mm (L*W*H)					
NOTE	 Ripple & noise are measure Tolerance includes set up t Derating may be needed ur PV/PC functions when user Output will shut down after The power supply is consid a 720mm*360mm metal pla 	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 and Static characteristics for more details. PV/PC functions when users do not use SVR. Output will shut down after O/P voltage is below < 80% of Vset for 5 sec, re-power on to recover. 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."					
		erating of 3.5° C/1000m with fanless mod : For detailed information, please refer to			o o (

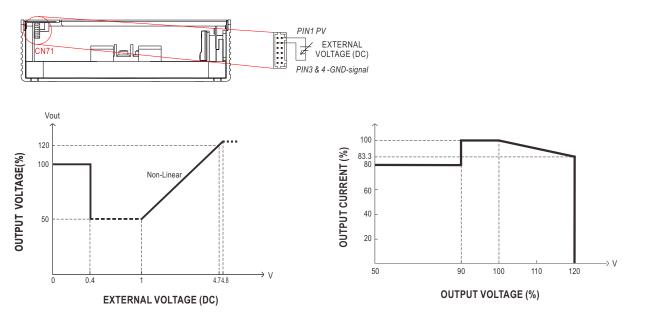






UHP-1500 series

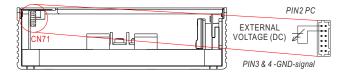
FUNCTION MANUAL



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

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

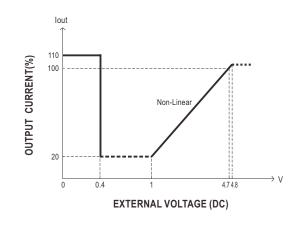
% The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE.

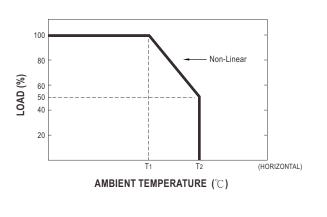


Output will shut down after O/P voltage is below < 80% of Vset for 5 sec, re-power on to recover.

% 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℃.





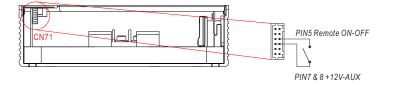


1500W Conduction Cooling with PFC Switching Supply

UHP-1500 series

3.Remote ON-OFF Control

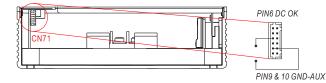
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



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.



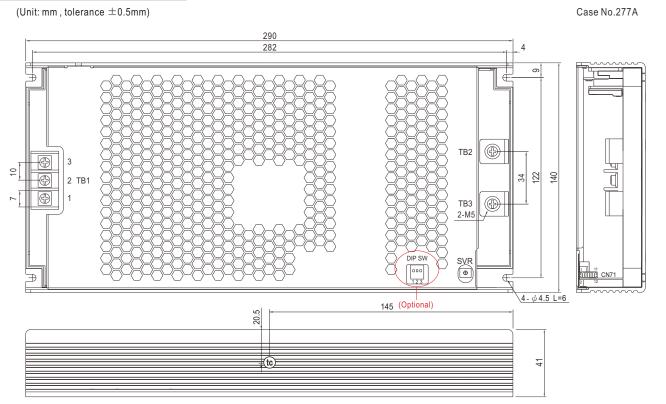
DC-OK signal	Power Supply Status	
"High" >4.4~5.5V	ON	
"Low" <-0.5~0.5V	OFF	

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



• (tc) : Max. Case Temperature

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

Pin No.	Assignment	Terminal	Max mounting torque
TB2	+V	(MW)	
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

2 1	Mating Housing	HRS DF11-12DS or equivalent
	Terminal	HRS DF11-**SC or equivalent
12		

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 ON-OFF	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and 12-AUX.(Note.2)	
5		Short (10.8 ~ 13.2V) : Power ON ; Open(0 ~ 0.5V) : Power OFF ; The maximum input voltage is 13.2V	
	DC-OK	Low (-0.5 ~ 0.5V) : When the Vout \leq 80% \pm 6%.	
6		High (4.4 ~ 5.5V) : When Vout≧80% \pm 6%.	
		The maximum sourcing current is 10mA and only for output.(Note.2)	
7,8	+12V-AUX	Auxiliary voltage output, 10.6~13.2V, referenced to GND-AUX (pin9 & 10).	
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)	
10	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.

