

Наличие и актуальные цены на

UHP-1500-24

https://www.mean-well.ru/store/UHP-1500-24/



















- 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)

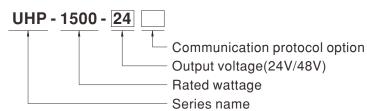
■ GTIN CODE

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 $90\sim264$ 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 $\sim 70^{\circ}$ 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



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



SPECIFICATION

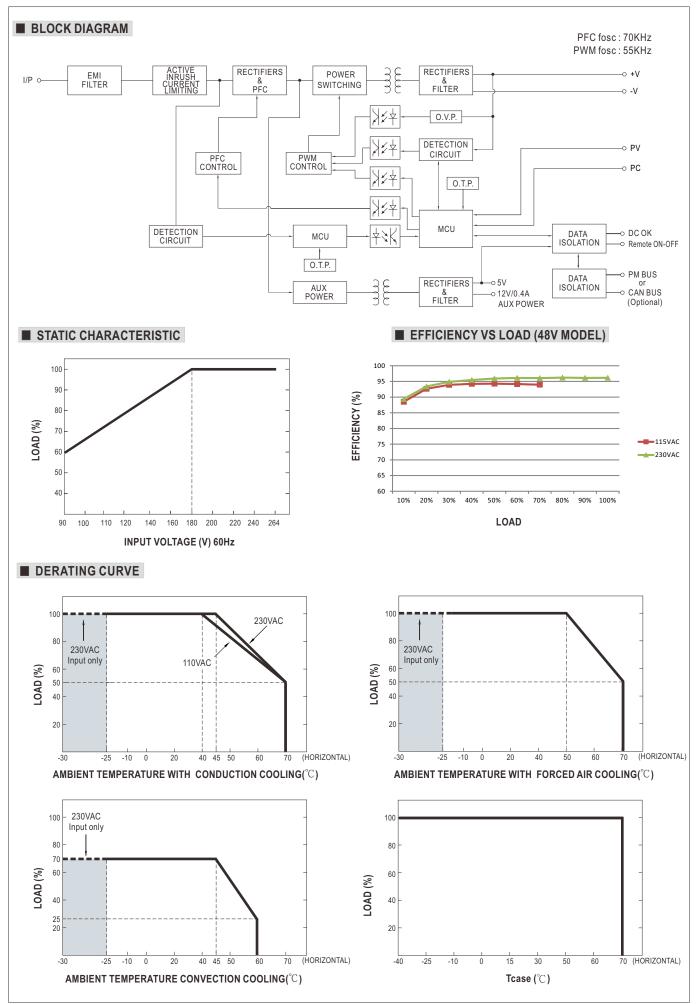
MODEL		UHP-1500-24	UHP-1500-48	i		
	DC VOLTAGE	24V	48V			
	RATED CURRENT	62.5A	31.5A			
	RATED POWER	1500W 1512W				
	RIPPLE & NOISE (max.) Note.2	2 240mVp-p 350mVp-p				
		By built-in potentiometer, SVR				
OUTPUT	VOLTAGE ADJ. RANGE	24~28.8V 48~57.6V				
	VOLTAGE TOLERANCE Note.3	±1.0% ±1.0%				
	LINE REGULATION	±0.5%				
	LOAD REGULATION	±0.5% ±0.5%				
		1800ms, 60ms/230VAC 1800ms, 60ms/115VAC at full load				
	,	· · · · · · · · · · · · · · · · · · ·	AC at full load; 16ms/115VAC at 75%	load 10ms/115VAC at full load		
	() ()		to actain load , Tomo, Trovito act 7070	Tomo, Town at fair load		
	FREQUENCY RANGE					
	· · · · · · · · · · · · · · · · · · ·	47 ~ 63Hz PF≥0.95/230VAC PF≥0.99/115VAC at full load				
INPUT	POWER FACTOR (Typ.) Note.4					
	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				
	OVERLOAD	105~125% rated current				
		Protection type : Constant current limiting,	shut down O/P voltage after 5 sec. Af	ter O/P voltage falls, re-power on to recover		
PROTECTION	SHORT CIRCUIT	Constant current limiting, unit will shutdowr	after 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, re-	covers automatically after temperatur	re goes down		
	OUTPUT VOLTAGE	Adjustment of output voltage is allowable to 50 ~ 120% of nominal output voltage				
	PROGRAMMABLE(PV) Note 5	Please refer to the Function Manual.				
	OUTPUT CURRENT	Adjustment of constant current level is allowable to 20 ~ 100% of rated current.				
FUNCTION	PROGRAMMABLE(PC) Note 5	5 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 = 4.4 ~ 5.5V; PSU turn off = -0.5 ~ 0.5V. Please refer 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, 5G 10min./1cycle, 60min. eac	h along X, Y, Z axes			
	SAFETY STANDARDS	UL62368-1, DEKRA BS EN/EN62368-1, EAC TP TC 004 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P	1			
	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 (CISPR32)	Class B		
	EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A		
	LING LINISSION	Harmonic Current	BS EN/EN61000-3-2	Class A		
SAFETY &						
EMC		Voltage Flicker	BS EN/EN61000-3-3			
Note.7)		BS EN/EN55035, BS EN/EN61000-6-2		I =		
		Parameter	Standard	Test Level / Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
	EMC IMMUNITY	Radiated	BS EN/EN61000-4-3	Level 3		
		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 period >95% interruptions 250 periods		
0711555	MTBF	535.4K hrs min. Telcordia SR-332 (Bello	core) ; 56.7K hrs min. MIL-HDBK-2	· ' '		
OTHERS	DIMENSION	290*140*41mm (L*W*H)				
	PACKING	2.51kg; 6pcs/15.15kg/0.86CUFT				

- 2. 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.
- 5. PV/PC functions when users do not use SVR.
- 6. Output will shut down after O/P voltage is below < 80% of Vset for 5 sec, re-power on to recover.
- 7. 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 https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 8. 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).
- ** Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



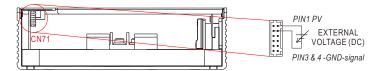


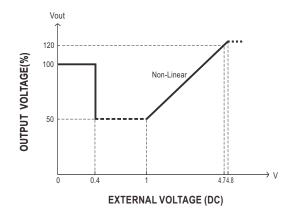


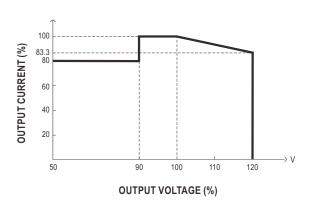
■ FUNCTION MANUAL

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.



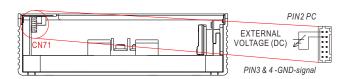




① The rated current should change with the Output Voltage Programming accordingly.

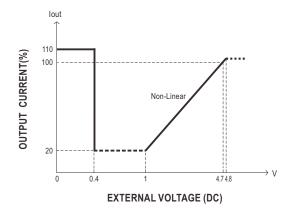
2. Constant Current Programming (or, PC / remote current programming / dynamic current trim)

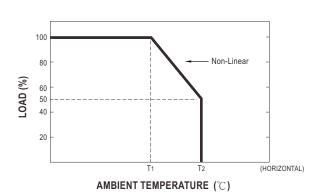
※ The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE.



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

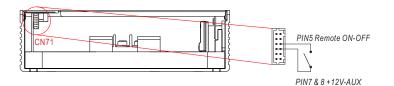
T2(Typ.): T1+5°C.





3.Remote ON-OFF Control

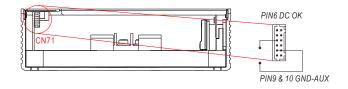
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



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

4.DC-OK Signal

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

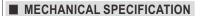


DC-OK signal	Power Supply Status
"High" >4.4~5.5V	ON
"Low" <-0.5~0.5V	OFF

5.PMBus Communication Interface

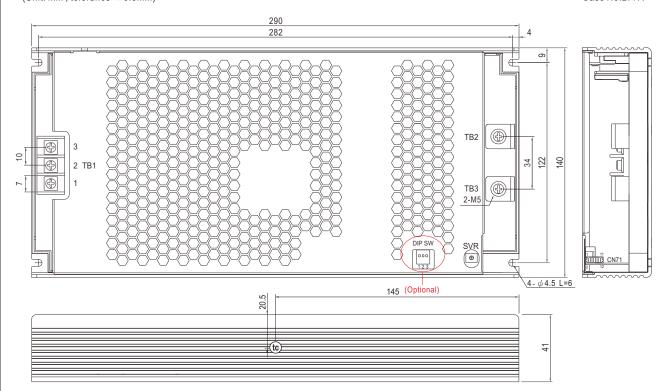
UHP-1500 supports PMBus Rev. 1.1 with maximum 100KHz bus speed, allowing information reading, status monitoring, output trimming, etc. For details, please refer to the Function Manual.





(Unit: mm , tolerance ± 0.5 mm)

Case No.277A



• (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	

 $\label{lem:control} \begin{tabular}{ll} \verb&\%Control Pin No. Assignment (CN71): HRS DF11-12DP-2DS or equivalent \\ \end{tabular}$



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)	
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 80% \pm 6%.	
6	DC-OK	High (4.4 ~ 5.5V): When Vout≧80%±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).	
1,0		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	GND-AUX	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.

