



## 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.7)
- LED indicator for power on
- Optional PMBus or CANBus protocol
- 5 years warranty

## Certificates

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

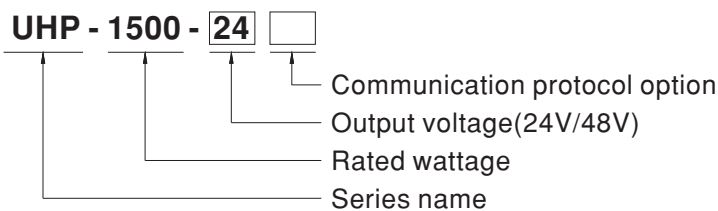
## Applications

- 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 90~264VAC 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 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



**SPECIFICATION**

MODEL		UHP-1500-24	UHP-1500-48	
OUTPUT	DC VOLTAGE	24V	48V	
	RATED CURRENT	62.5A	31.5A	
	RATED POWER(convection)	1500W	1512W	
	RIPPLE & NOISE (max.) Note.2	240mVp-p	350mVp-p	
	VOLTAGE ADJ. RANGE	By built-in potentiometer, SVR		
		24~28.8V	48~57.6V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±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/230VAC at full load		
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC	250 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF ≥ 0.95/230VAC at full load		
	EFFICIENCY (Typ.)	95%	96%	
	AC CURRENT (Typ.)	8A/230VAC		
	INRUSH CURRENT (Typ.)	Cold start 60A/230VAC		
	LEAKAGE CURRENT	<0.75mA / 240VAC		
PROTECTION	OVERLOAD	105~125% rated output power Protection type : Constant current limiting, unit will shutdown after 5 sec, re-power on to recover.		
	SHORT CIRCUIT	Constant current limiting, unit will shutdown after 5 sec, re-power on to recover.		
	OVER VOLTAGE	30 ~ 35V	60 ~ 67V	
		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			
FUNCTION	OUTPUT VOLTAGE PROGRAMMABLE(PV) Note.5	Adjustment of output voltage is allowable to 50 ~ 120% of nominal output voltage Please refer to the Function Manual.		
	OUTPUT CURRENT PROGRAMMABLE(PC) Note.5	Adjustment of constant current level is allowable to 20 ~ 100% of rated current. 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.		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	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 & EMC (Note.6)	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved; Design refers to EN61558-1, EN60335-1 (by request)		
	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		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		Conducted	EN55032 (CISPR32)	Class B
		Radiated	EN55032 (CISPR32)	Class A
		Harmonic Current	EN61000-3-2	Class A
	Voltage Flicker	EN61000-3-3	-----	
	EMC IMMUNITY	EN55024, EN61000-6-2		
		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
		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		
OTHERS	MTBF	181.47K hrs min.    Telcordia SR-332 (Bellcore) ; 56.72K hrs min.    MIL-HDBK-217F (25°C)		
	DIMENSION	290*140*41mm (L*W*H)		
	PACKING	2.51kg ; 6pcs/16.06kg/0.86CUFT		
NOTE	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>PV/PC functions when users do not use SVR.</li> <li>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 <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</li> <li>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).</li> </ol>			