



## UHP-1500-HV Series

1500W High Voltage Output Power Supply



As the application of green energy and industrial products matures, related products directly integrate various DC high voltage applications to improve product performance or reduce unnecessary power conversion losses. There are more and more products using DC voltages above 60V, such as electrolysis, charging energy storage devices, UV or laser applications, and others. In response to market demand, MEAN WELL has successively developed a variety of high-voltage output power products, and continues to provide related green energy industrial or industrial-grade equipment in standard power products.

The newly launched UHP-1500-HV series includes three different output voltages of 115V, 230V and 380V, which can be used with a variety of DC high voltage applications. The fanless design combined with conduction heat dissipation makes it suitable for high dust or any indoor or outdoor equipment. In addition, the output voltage and current can be adjusted in three ways, including built-in variable resistors, programmable (PV/PC) functions, or digital communication, (such as CANBus, PMBus, and others), combined with the human-machine interface as a system integration and control feature.

The UHP-1500-HV series not only complies with EN/UL62368-1 regulations, but also conforms to the OVC III design, and can be used directly in distribution boxes or stationary equipment. The benefits of OVC III are mainly to reduce the voltage conversion cost in the first stage, and provide a higher level of insulation to withstand higher voltage, reducing the risk of electric shock. Moreover, high-voltage output applications are increasingly used in DC centralized bus (DC grid) applications, such as charging or lighting applications. In conjunction with PBM (Powered by Meanwell) customers, they have developed access for lighting fixtures that can directly use DC 380V input. With MEAN WELL's DC-DC driver, [NHDD-40](#) series, MEAN WELL has achieved the application of DC centralized bus lighting ([DC House](#) / DC grid). Driven by the development of green energy products,



DC high voltage applications will continue to mature at an accelerated rate, and MEAN WELL will continue to be at the forefront of developing the most efficient DC high voltage power supply.

Please refer to the table below for MEAN WELL single-phase input and high-voltage output product series:

Series	UHP-1500-HV	HEP-2300-HV	PHP-3500-HV	CSP-3000
Wattage	1500W	2300W	3500W	3000W
Dissipation method	Fanless design Conduction cooling	Fanless design Aluminum extrusion IP67	Fanless design Conduction or water cooling	Built-in cooling Fan
Output Voltage	115V / 230V / 380V		120 / 250 / 400V	
Parallel function	NA		3 units	
Efficiency (Max.)	96%		93%	
Output Programming	PV: Voltage adjustable 50~120% PC: Current adjustable 20~100%		20~120% 20~100%	
Communication protocol	PMbus/CANbus/MODbus(optional)		NA	
Size (mm)	290x 140x 41	375x 280x 88	290x 140x 41	278x 177x 63
Warranty (years)	5	6	5	5
Applications	DC centralized bus Any equipment	Electrolysis equipment Any outdoor equipment	Laser cutting equipment Battery energy storage system	UV curing equipment Any indoor equipment

NOTE: 1. HEP-2300-HV will be launched In April 2022 ◦

2. AC three phase design with high voltage output series will be launched in 2022.Q2

Features:

- High voltage output with 115/ 230/ 380V DC
- Fanless design with conduction cooling
- Output voltage and current level programmable
- 12V/ 0.4A Auxiliary power available
- Digital CANbus and PMbus interface
- Built-in remote ON/OFF and DC ok signal
- Meet EN/UL62368-1, EAC, CE regulations and OVC III
- 5 years warranty

Applications where you can use it:



UHP - 1500 - 115 - □

- Communication protocol type  
(Blank: with PV/PC programming, PM: with PMbus, CAN: with CANbus)
- Output voltage (115V / 230V / 380V)
- Rated wattage
- Series name

**Note :** UHP-1500-380E for DC centralized bus lighting application

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