

Laser | Battery Management | Electrolysis | UV Curing

High Voltage DC (HVDC) Output 115/230/380V DC Power Supply Solutions

As applications of green energy and industrial products become more diversified, related products integrate various high voltage direct current (HVDC) applications directly, such as electrolysis, charging energy storage equipment, UV curing or laser applications to improve product performance and eliminate or reduce unnecessary power conversion losses. More and more industrial products use DC voltages greater than 60V. MEAN WELL has continued to develop a variety of high-voltage output power products, and continues to provide standard power supplies for green energy industries and industrial-grade equipment.

MEAN WELL also provides a variety of cooling methods according to the application requirements of industrial equipment. These include conduction cooling, water cooling and forced air cooling, all designed to offer customers conveniency to accomplish overall planning with system equipment. In addition, the input voltage provide single-phase or three-phase input (AC) voltage, and the output includes three different high-voltage DC, 115V, 230V and 380V, this provides customers with a various selection of high-voltage choices. Moreover, programmable output voltage current and digital communications interface (CANbus/PMBus/MODbus) also helps customer when dealing with system integration or system automation.

Single-phase/Three-phase AC input, multi-industrial applications

Provides single-phase and three-phase three-wire or three-phase four-wire AC power supply applications, and a variety of standard power supplies with high-voltage DC output, which can meet the application possibilities for multiple industries.



Low profile, compact design

Miniaturized design, mechanism height <2U 88.9 mm, which is convenient for integrating the power supply into the system.



Parallel function to extend wattage

Models above 3000W provide parallel function, which can be extended in parallel according to equipment load requirements, with a maximum parallel wattage up to 128kW.



Digital communication interface

In addition to programmable adjustment to the output voltage and current, many models also provide digital communication interfaces, such as CANBus, PMBus, MODBus, which are more convenient for digital integration between the power supply and system.



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Selection Guide

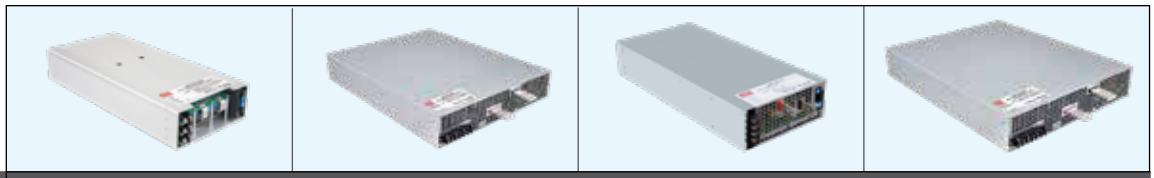
Multi-industrial Applications | 2U Low Profile | Parallel Function | Digital communication interface

Single-phase AC input / HVDC output series



Series	UHP-1500-HV	HEP-2300-HV	PHP-3500-HV	CSP-3000	NCP-3200
Input Voltage	90~264V AC	90~305V AC	90~264V AC	180~264V AC	90~264V AC
Output Voltage	115V / 230V / 380V			120V / 250V / 400V	380V
Parallel Function	N/A			3 units (9000W Max.)	40 units (128kW Max.)
Heat Dissipation	Fanless design, conduction cooling		Fanless design, conduction and water cooling	Built-in fan cooling	
Efficiency	95.5%		96%	93%	94%
Programming Function	PV: Voltage adjustable (50%~120%) PC: Current adjustable (20%~100%)			PV: (20%~120%) PC: (20%~100%)	PV: (50%~120%) PC: (20%~100%)
Digital Communication interface	CANBus / PMBus / MODBus			N/A	CANBus / PMBus
Dimension (L x W x H)	290x 140x 41 mm	375x 280x 88 mm	380x 141x 60 mm	278x 177.8x 63.5 mm	325.8x 107x 41 mm
Waterproof Level	Semi-Potting	IP67	N/A		
Warranty	5 years			3 years	5 years
Applications	· DC centralized bus · Lighting	· Electrolysis equipment · Outdoor telecom equipment	· Laser cutting · Charging equipment	· UV curing equipment · Any indoor equipmwnt	· Data center · Charging system

Three-phase AC input / HVDC output series



Series	RST-7K5	RST-15K	SHP-10K	SHP-30K
Input Voltage	3Ø3W/3Ø4W (196~305V AC Phase Voltage)		3Ø3W (340~530V AC)	
Output Voltage	115V/230V/380V DC			
Parallel Function	4 unit. (30kW Max.)	2 unit. (30kW Max.)	4 units (40kW Max.)	12 units (300kW Max.)
Heat Dissipation	Built-in fan cooling, watercooling	Built-in fan cooling	Built-in cooling fan, watercooling	Built-in fan cooling
Efficiency	95%	94.5%	96.5%	97%
Programming Function	PV:Voltage adjustable (1%~120%) PC:Current adjustable (20%~100%)		PV: Voltage adjustable (50%~120%) PC: Current adjustable (20%~100%)	
Digital Communication interface	N/A		CANBus / PMBus / MODBus	
Dimension (L x W x H)	460x 211x 83.5 mm (Fan type) 460x 216x 83.5 mm (Watercooling)	540x 424x 83.5 mm	460x 211x 83.5 mm (Fan type) 460x 216x 83.5 mm (Watercooling)	540x 424x 83.5 mm
Warranty	5 years			
Applications	DC Centralized bus, Electrolysis system, Charging and battery storage system, Laser cutting, UV curing equipment			