



MEAN WELL Low Profile Miniaturized Conduction Cooling Power Supply Family

Description

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**Low Profile · Miniaturized
Conduction Cooling
Power Supply Family**

Are you still worrying about damage caused by long-term use of cooling fans, causing dust to accumulate, then overheating and damaging the power supply? Or is there excessive fan noise when the equipment is running? **MEAN WELL** has launched three series of conduction cooling, fanless power supplies — **LSP**, **UHP**, and **PHP**, which have the following four major advantages, and all of them are suitable for various indoor and outdoor equipment.



Highlights



Conduction Cooling Fanless Design

Conduction heat dissipation is suitable for high dust environments or outdoor system applications, reducing the damage caused by fans accumulating dust.

Low Profile Miniaturized Design

Semi-potted for Dust-proof, Moisture-proof Performance

The UHP series is filled silicon glue on the surface which can be used in places with high dust or humidity. It can withstand the effects of 5G vibration.

CANBus/PMBu Protocol

If your equipment has limited internal space and cannot be installed with a huge size power supply, most of the UHP series models are designed with 1U (<44mm), suitable for small spaces, and a full range of wattage from 160W to 3500W, providing a variety of industrial equipment.

UHP series design with DC OK signal function, combined with human interface. In addition, the provides a wide range of programmable output current (>1000W) and supports digital protocol (>1500W), which is convenient for customers to integration control.

Case Studies



Self-service Equipment (Kiosk)



Indoor Small Pitch LED Display



3D Printer



Self-service equipment, which is commonly used in indoor ticket selling or public places, built-in computer systems and displays, combined with fanless UHP series, can solve noise problems, and the low-profile design also solves the problem of needing to use it in narrow spaces.

With the development of LEDs in smaller sizes, the resolution of display has increased again, and indoor displays are suitable to use with UHP series for movie theaters, conference centers, film shooting scenes and others. In addition, the UHP series like the semi-potted units, can effectively prevent high humidity and can be used for outdoor systems.

When operating a 3D printer and fan are operated at the same time, which may be accompanied by a great deal of noise. This problem may distract the user. The fanless design allows users to concentrate on work without noise issues and at the same time increases the reliability of the equipment.

Model in Use: [UHP-200-24](#)

Model in Use: [UHP-350-5](#)

Model in Use: [UHP-500-24](#)

Choosing a suitable conduction cooling power supply

	Series Name	Potted	Cooling Methods	Dimension (mm)	W
	LSP-160	V	Conduction	194x55x20	
	UHP-200	V	Conduction	194x55x26	
	UHP-350	V	Conduction	220x62x31	
	UHP-500	V	Conduction	232x81x31	
	UHP-750	V	Conduction	237x100x41	
	UHP-1000	V	Conduction	240x115x41	
	UHP-1500 Note 1	V	Conduction	290x140x41	
	UHP-2500	Footer Tagline â€”	Conduction Water-cooling	310x140x60	

Category

1. Ewave
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