



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.



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

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



Low Profile · Miniaturized Design

If your equipment has limited internal space and can not 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.



CANBus/PMBus Protocol

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



Case Studies



Self-service Equipment (Kiosk)

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.

Model in Use UHP-200-24



Indoor Small Pitch LED Display

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.

Model in Use UHP-350-5



3D Printer

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

Model in Use UHP-500-24

Choosing a suitable conduction cooling power supply

| | Features Series Name | Potted | Cooling Methods | Output Programmable | PMBus CANBus | Redundant Function | Dimension (mm) | Warranty (years) |
|--|---------------------------|--------|---|---------------------|--------------|--------------------|----------------|------------------|
| | LSP-160 | V | Conduction | ---- | ---- | V(<5V) | 194x 55x 20 | 3 |
| | UHP-200 | V | Conduction | ---- | ---- | V | 194x 55x 26 | 3 |
| | UHP-350 | V | Conduction | ---- | ---- | V | 220x 62x 31 | 3 |
| | UHP-500 | V | Conduction | ---- | ---- | V | 232x 81x 31 | 3 |
| | UHP-750 | V | Conduction | ---- | ---- | ---- | 237x 100x 41 | 3 |
| | UHP-1000 | V | Conduction | V | ---- | ---- | 240x 115x 41 | 5 |
| | UHP-1500 ^{Note1} | V | Conduction | V | V | ---- | 290x 140x 41 | 5 |
| | UHP-2500 | ---- | Conduction/ Water-cooling ^{Note2} | V | V | ---- | 310x 140x 60 | 5 |
| | PHP-3500 ^{Note1} | ---- | Conduction/ Water-cooling ^{Note2} | V | V | V | 380x 141.4x 60 | 5 |

Note1: The series provides high voltage output models (115/230/380VDC) ; **Note2:** Cold plate for water cooling available as optional accessory

Please contact us for product information, quotations and technical support

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