



Noise Free | Miniaturized | Backup available | Safe voltage

Mini/Micro LED Display Power Solutions

With the digital transformation of LED displays, the demand for UHD image quality such as 4K and 8K has increased, and coupled with the mature development of Mini and Micro LEDs has led to the increasing popularity of high quality indoor LED display with pitch <math><1.2\text{mm}</math>, displays of 110 to 1000 inches, and applications such as movie theaters, surveillance centers, film shooting, and many other applications.

Since the indoor LED display is close to the user, the requirements for noise, miniaturization, back up and power safety are relatively important. In response to market demand, MEAN WELL provides power solutions for small-pitch LED displays with the following features—



The fan jams easily from dust or makes noise after long-term use

The power supply has no backup function, resulting in a black screen situation

Features



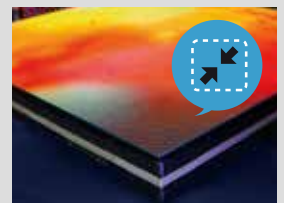
Conductive Heat Dissipation Without Noise

Fanless conductive heat dissipation power supply, suitable for indoor LED display, can reduce noise problems and also eliminate damage caused by dust buildup impeding the cooling fan.



Miniaturization

In order to reduce the thickness of the display, indoor LED displays need to be equipped with low-profile power supplies. In this regard, MEAN WELL provides a variety of low-profile power supplies (20~31mm) to meet the needs of customers.



Back Up Function

In order to improve the stability of indoor LED displays, it is usually necessary to install additional backup equipment to reduce the risk of a black screen issue during operation of the LED display. Therefore, MEAN WELL provides a variety of power supplies with backup functions, which can reduce the risk of black screen.



Safety Extra-low Voltage Application

Indoor LED displays can be easily touched by users. In order to reduce the risk of electric shock, the front-end power supply can be changed to meet the 48V SELV low-voltage centralized bus application, and the rear end can be used with a Class III low-voltage DC-DC miniaturized power supply to achieve a thin display design. and power safety requirements.



Case Studies



Cinema /Convention Center

Traditional cinemas cannot present high-quality images through screen projection, while small-pitch displays can achieve ultra-high-definition playback such as 4K and 8K. The UHP series uses conductive heat dissipation and backup functions to improve the playback quality of movies.

Model in Use UHP-200R-5



Surveillance Center

A surveillance center requires a large screen or multi-screen display. In 24-hour monitoring usage, it is necessary to configure a more flexible LED display. Such centers combined with MEAN WELL's UHP series with backup function are conducive to long-term use.

Model in Use UHP-350-5



Movies Shooting

With the development of small-pitch LED displays, high-resolution LED display images can be quickly converted into different shooting scenes, reducing the cost of traditional of green screens post-production. The UHP series is equipped with small-pitch LED display, which allows for shooting without fan noise interference.

Model in Use UHP-500-24

Choose the right indoor LED display power supply For AC input power solution

	Series Name	Wattage	Cooling Methods	Back Up Function	Moisture-proof Function	DC OK Signal	Dimension (LxWxH)	Warranty (years)
	LSP-160(R)	200W	Conduction	✓	✓	✓	194x55x20 mm	3
	UHP-200(R)	200W	Conduction	✓	✓	✓	194x55x26 mm	3
	UHP-350(R)	350W	Conduction	✓	✓	✓	220x62x31 mm	3
	UHP-500(R)	500W	Conduction	✓	✓	✓	232x81x31 mm	3

For DC centralization bus power solution

	Type	Series Name	Wattage	Cooling Methods	Current Sharing	Dimension (LxWxH)	Warranty (years)
	Front-end	UHP-2500-24V / 48V	2000W	Conduction	✗	310x140x60 mm	5
	Front-end	PHP-3500-24V / 48V	2000W~9100W (optional)	Conduction	✓	380x141x60 mm	5
	Rear-end	NID100-5V	55W	Free air convection	✗	50.8x27.5x12 mm	3

Note :If you need a DC-DC convertor wattage higher than 200W or 300W, please contact MEAN WELL sales for detail.

Please contact us for product information, quotations and technical support

HEADQUARTERS(Taiwan)
www.meanwell.com.tw
 +886-2-2299-6100
info@meanwell.com

MEAN WELL USA
www.meanwellusa.com
 +1-510-683-8886
info@meanwellusa.com

MEAN WELL EUROPE
www.meanwell.eu
 +31-20-758-6000
info@meanwell.eu