



LOP-400/500/600 Series:

400W/500W/600W 5" x 3" Ultra Low Profile PCB Type Power Supply



MEAN WELL ultra slim PCB type power supply: LOP family, has just released the LOP-200/300 series that features a compact size of 4" x 2" and power ratings of 200W/300W. Following this, MEAN WELL is now introducing the LOP-400/500/600 series with 5" x 3" dimensions and power ratings of 400W/500W/600W. This family offers a range of high reliability, high quality, high efficiency, and safety oriented built in PCB type power supplies with excellent EMC performance. They are suitable for use in Class I or II systems, providing a high performance and cost-effective solution for various electronic instruments and devices.

Compared with the EPP/RPS-300/400/500 series on sale, the main differences of the LOP-400/500/600 series are: low profile design (1.08"~1.31" in height), offers a more comprehensive voltage range of 12V to 54V, increases power to 600W within a 5" x 3" footprint, provides 150% load capacity at 3 seconds, has a wider operating temperature range of -40 to +80°C, complies with OVCIII, 2xMOPP, and BF medical applications. This device simultaneously applies for multiple safety standards in various fields, including 62368-1/60601-1/61558-1/60335-1. It has a wide range of applications and can meet the demands of high power applications, suitable for use in communication, network, medical, industrial control, security, home automation, and others.



| Series | Old Generation | | | New Generation | | |
|-------------------------------------|---|-------------|----------------|--|------------------|------------------|
| | EPP/RPS-300 | EPP/RPS-400 | EPP/RPS-500 | LOP-400 | LOP-500 | LOP-600 |
| Model | 12V/15V/24V/27V/48V (Partial wattages are 18V/36V/54V) | | | 12V/15V/18V/24V/27V/36V/48V/54V | | |
| Dimensions (L x W x H) | 127*76.2*35 mm | | 127*76.2*41 mm | 127*76.2*27.5 mm | 127*76.2*30.5 mm | 127*76.2*33.5 mm |
| Air Convection Watt. | 200W | 250W | 320W | 250W | 320W | 400W |
| Additional Fan Wattage | 300W | 400W | 500W | 400W | 500W | 600W |
| Peak Power (3 secs.) | N. A | | 550W | 600W | 750W | 900W |
| Operating Temp. | -30~+70°C | | | -40~+80°C | | |
| Over Voltage Category | OVCII | | | OVCIII | | |
| Withstand Voltage (I/P - O/P) | EPP: 3KVAC RPS: 4KVAC | | | 4KVAC | | |
| Insulation Protection | RPS: 2 x MOPP | | | 2 x MOPP | | |
| Safety Certification | CB / TUV / UL / EAC / CE / UKCA (Only Class I certified) | | | CB / TUV / UL / RCM / CCC / EAC / CE / UKCA (Both Class I and II certified) | | |
| | EPP: 62368-1 + 60335-1 RPS: 60601-1 | | | 62368-1 + 60601-1 + 61558-1 + 60335-1 | | |

Features

- MEAN WELL patent number ZL 202223277512.1
- 5" x 3" standard universal dimension with ultra low profile
- 80~264Vac input and built-in PFC, no-load standby <0.5W
- Passed international certifications in multiple fields (ITE / Medical / Industrial / Household)
- Comply with 2xMOPP, suitable for Type BF medical applications
- Delivers 150% peak power for up to 3 seconds
- Suitable for Class I or Class II systems
- Operating temperature -40~+80°C
- Protection functions: Short Circuit, Overload, Overvoltage, Over Temperature
- Extremely low leakage current (<500µA to ground, <70µA to contact)
- Operating altitude up to 5,000 meters
- Built-in 12V/0.5A auxiliary power supply
- 3 years warranty

Applications



Order information

LOP- 400 - 12

