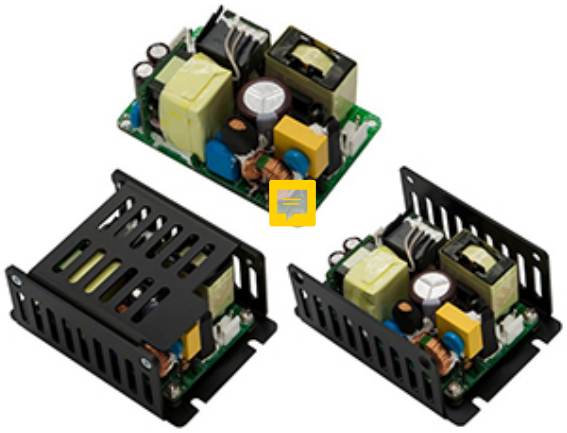
Enclosed, Open Frame, U-Channel Power Supply

Fast Facts

PPWAM150 – Medical & ITE 150W AC/DC Power - Industry Leading 2” x 3” Size

The PPWAM150 is the latest addition to TT Electronics’ portfolio of Medical and Industrial AC/DC Power Supplies. It is designed using the latest resonant circuit topology for the minimization of conduction losses. This results in higher efficiency, which then results in being able to fit a 150W power supply in a tiny 2” x 3” footprint. It was not too long ago when a 150W power supply required a 3” x 5” footprint!



Efficiencies have increased from 87% to 92% in order to achieve a power density increase of 250%. Another way to look at it is a reduction in footprint of 60%. What used to require 15 square inches, now only requires 6 square inches. Why is this important? As more and more medical equipment is designed for in-home use according to EN60601-1-11 Home Healthcare, the size and weight of the electronics is critical.

The other critical parameter is the advantage of less heat being developed by the power supply. All power supplies give off heat, and that heat needs to be removed from the equipment. An efficiency increase of 5%, actually reduces the amount of heat given off by the power supply by 42%. So, an increase in efficiency of 5% actually reduces the heat developed by almost half. It makes the thermal design of the equipment much easier, and the resulting end product more reliable.

The new series has both Medical (UL/EN60601-1) and Industrial (UL/EN62368-1) Safety and EMC approvals and certifications, allowing it to be used in multiple markets and applications.

Market Segments

- Medical
- Industrial

Medical Applications

- Patient Monitoring
- Blood and Infectious Disease Analysis
- Lab Diagnostic Equipment
- Hospital Equipment

Industrial Applications

- Telecommunications Equipment
- Factory Automation
- Scanner
- 3D Printing

Benefits

- High Power Density suitable for both Medical and Industrial Applications
- High efficiency design suitable for tight space requirements
- Low EMC noise for sensitive environments. Class B Radiated and Conducted EMI.
- A large choice of standard output voltages: 12V,15V,18V,24V,28V,36V,48V,56V

Our Advantage

For space critical medical and industrial designs, the PPWAM150 will fit in where others will not, and will run cooler than the competition increasing the reliability of the overall product.