

Powerbox's high peak load power supply for medical laser applications Highly Commended at the prestigious Electronics Industry Awards

Press Release
November 15, 2021

Powerbox, one of Europe's largest power supply companies and a leading force for four decades in optimizing power solutions for demanding applications, has announced that its SMM3000A80024C high peak load power supply for meEdical laser applications has been recognized as Highly Commended in the contested Electronics Industry Awards, Power Product of the Year category.

Laser equipment is widely used in medical applications and from cosmetic through to general surgery they all require power supplies able to deliver very high peak energy levels to the laser or discharge tubes. However, high peak energy and the repetition thereof generates electromagnetic radiation and line disturbance. This is a challenge for power designers who need power solutions that are able to deliver the required amount of power without generating line disturbances, whilst also guaranteeing patient and operator safety when high voltages and energy levels are involved during the process.

"Powerbox's SMM3000A80024C high peak load power supply for medical laser applications being recognized as Highly Commended by the Jury in the Power Product of the Year category is testimony not only to its high level of innovation but particularly, it is a measure of the forward thinking of Powerbox in developing and driving power systems to new levels of safety and reliability. Said Patrick Le Fèvre, Powerbox (PRBX) Chief Marketing and Communication officer.

The power supply provides a level of protection, primary to secondary main output of 2xMOOP, and 2xMOPP to auxiliary output. To accommodate different capacitor banks and applications, the output voltage can be adjusted from zero to 800VDC (600VDC nominal) with an output current of 5.5A at nominal. An automatic current controller guarantees that the power envelope is always within safe limits, reducing capacitor aging and overstressing of components, thus contributing to a longer lifetime. The SMM3000A80024C has a built-in microprocessor constantly monitoring the charging status, reporting end of charge and discharge level, as well as all protection warnings due to abnormal operation such as over-temperature, over-voltage and current.

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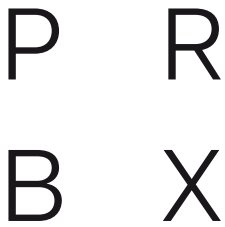


Picture: Picture source: PRBX / WHYFRAME / Shutterstock
PRBX SMM3000A80024C high peak load power supply for medical laser applications

Related links:

PRBX SMM3000A80024C

<https://www.prbx.com/product/smm3000a80024-c/>



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About Powerbox

Founded in 1974, with headquarters in Sweden and operations in 15 countries across four continents, Powerbox serves customers all around the globe. The company focuses on four major markets - industrial, medical, transportation/railway and defense - for which it designs and markets premium quality power conversion systems for demanding applications. Powerbox's mission is to use its expertise to increase customers' competitiveness by meeting all of their power needs. Every aspect of the company's business is focused on that goal, from the design of advanced components that go into products, through to high levels of customer service. Powerbox is recognized for technical innovations that reduce energy consumption and its ability to manage full product lifecycles while minimizing environmental impact. Powerbox is a Cosel Group Company.

About The Electronics Industry Awards

The Electronics Industry Awards is a premier event that recognizes outstanding people, products and business practices from across the electronics sector. The Awards are organized by Datateam Business Media, in association with CIE Magazine.

<https://electronicsindustryawards.co.uk/>

For more information

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