

IEC60601-1 3rd Edition driving medical power supply designs

“Electronic engineers designing power supply solutions for medical applications have some unique challenges. They need to understand not only the application, but the stringent requirements of the medical standards to meet market demands. For global compliance, power supplies need to meet IEC 60601 “Medical Electrical Equipment, Part 1: General Requirements for Safety.”

In 2012 we supported several medical OEM customers to achieve the latest IEC60601-1 3rd Edition approval on their existing products as they faced re-approval under the new classification scheme. The projects included power products for neonatal ventilation machines, varicose vein laser treatment and endoscopy equipment.

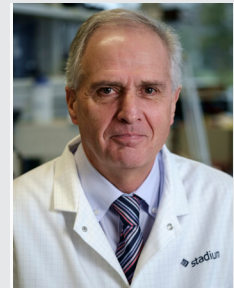
The 3rd Edition represents a ‘shift in thinking’ to the previous edition, with greater emphasis on risk management and performance. From classification of the host equipment to MOOP (Means Of Operator Protection) or MOPP (Means Of Patient Protection), to more technical factors such as Insulation and Dielectric Strength, Creepage Distances and Air Clearances.

“Stadium has expert knowledge of the medical power supplies market having worked with global medical device and equipment manufacturers for over 30 years.”

The challenge in re-approval requires equipment designers, manufacturers and testing providers to work in close partnership.

Stadium Power has expert knowledge of the medical power supplies market having worked with global medical device and equipment manufacturers for over 30 years. Our specialist power supply engineers – who are experienced in the demands of EN60601 and the high reliability and critical nature of medical power supplies – are on hand to support our customers from our UK and Asia manufacturing operations.

If you would like to find out more about our Customised Medical solutions visit www.stadiumpower.co.uk



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Mike is a qualified electronics engineer with 40 years’ experience in design and manufacture of SMPSU’s including four Patents registered. Mike is Technical Director for Stadium Power with responsibility for the global engineering team.

Mike was a co-founder of Quel-Powerline until the business was acquired by Chloride and later co-founder of Ferrus Power, acquired by Stadium Power in 2007.

