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Powering the Medical Power Supply with Medical EMC 4th Edition (IEC 60601-1-2:2014)



The International Electrotechnical Commission (IEC) in 2014 published the updated revision of the electromagnetic compatibility (EMC) requirements for medical devices, the IEC 60601-1-2:2014, so called 4th edition, with an effective date of April 1, 2017. This revision makes changes to immunity requirements and the analysis of risk management for electromagnetic disturbances of medical devices, in order to make them safer for use in three intended environmental categories as explained below.

With the roles that power supplies play in medical devices, it is important for Delta to help Design Engineers achieve the most efficient and expeditious way for their designs to meet the 4th edition standard for medical systems and devices. The 3rd edition standard requirements are based on the purpose of the equipment, rather than the environment that it was intended to be used in. The 4th edition standard requirements are broken down into three intended use environmental categories:

- 1 **Professional Healthcare:** Hospitals, clinics, other medical facilities
- 2 **Home Healthcare:** Homes, public spaces
- 3 **Special Environments:** Military installations, industrial zones

These categories more accurately define the operation of medical devices and systems in everyday life, where devices, such as mobile devices or other equipment, may be operating concurrently. Alongside intended use environmental categories, comes new "Intended Use" and "Normal Use" definitions, where:

- Intended use is for the intended medical purpose
- Normal use is for purposes such as transportation, maintenance, standby

Beyond use within environmental categories, technical changes within 4th edition include:

- A Immunity test level increases
- B Changes to Immunity testing
- C Expansion of Risk Management

[LEARN MORE ABOUT MEDICAL EMC 4TH EDITION HERE »](#)

To learn more about all of the medical power supplies Delta provides, please visit www.DeltaPSU.com. Or contact your local sales representative or distributor for product availability.

*Based on the global sales revenue from the Micro-Tech Consultants March 2016 report

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