

MEDICAL APPLICATIONS

Diagnostic, Patient Care & Surgical Equipment



Hospital & Medical Facility Lighting



- A complete line of standard *medical grade* filters.
- Agency approvals with a wide range of *line to ground capacitance* helping meet *leakage current requirements* for *general purpose* applications to critical patient care devices.
- No charge pre-compliance EMI testing support for OEMs.

Typical Applications:

- Patient Monitor
- Blood Warmer
- Air Blankets
- Dialysis Machines
- Ventilators
- Ultrasonic Cleaners / Sterilizers
- Hematology Analyzers
- Radiology
- Anesthesia Machine
- Surgical / Patient Beds
- Ultrasound
- MRI / CT Scanner / X-ray machines
- Surgical / Medical Facility Lighting
- Power and Signals for MRI Rooms
- more....

Imaging, Therapy Delivery & PDU



MRI Rooms



With in-house and on-site services to ongoing investments in research & development and global production, AstrodyneTDI is uniquely positioned as an international leader in the field of EMI Filters. Standard, customized and fully custom solutions, with full engineering support, help our customers meet international compliance standards, quickly and cost effectively. Our EMI filter solutions range from small single phase components to high power 2500A/690V industrial 3-phase filters. Most standard catalog items carry full agency approvals (UL, CSA, CE).

MEDICAL APPLICATIONS

Diagnostic / Patient Care / Surgical Equipment

Electrical Specifications:

- Single Phase, 1-20A, 120/250/300VAC, 50/60Hz
- IEC Inlet, 1-20A, 120/250VAC, 50/60Hz
- Power Entry Modules (Fuse/Switch), 1-10A, 120/250VAC, 50/60Hz

Performance Specifications:

- IEC 60601-1-1 (EN55011 for conducted emissions)

Leakage Current:

- Selectable Line to Ground Capacitance
- 5uA min. to 1.6mA max. total leakage



Imaging / Therapy Delivery / PDU

Electrical Specifications:

- Single Phase, up to 200A, 300VAC max, 50/60Hz
- 3-Phase, Delta/Wye up to 600A, 480/600VAC max, 50/60Hz
- Gradient Amplifier

Performance Specifications:

- IEC 60601-1-1 (EN55011 for conducted emissions)

Leakage Current:

- Selectable Line to Ground Capacitance
- 0 - 4.7nF Y-Capacitors (or higher)



MRI Rooms

Electrical Specifications:

- Power Line, 120/277 VAC, up to 50A, 50/60Hz
- Signal Line, 0.5 - 5A, 600 VDC/300VAC max

Performance Specifications:

- Power Line: 100dB @ 5MHz to 10GHz
- Data Line: Varies by Data Speed
- Control/Alarm Line: 100 dB @ 14KHz to 10GHz

