

LED Adapter

EMC Technical specifications

Guidance and manufacturer's declaration

The **LED Adapter** is suitable for use in the following environment. The user must assure that it is used only in the electromagnetic environment as specified.

Emission test	Compliance	Electromagnetic environment - guidance
RF emissions - CISPR 11	Group 1	The LED Adapter uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions - CISPR 11	Class B	The LED Adapter is suitable for use in all establishments including domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic current emissions - IEC 61000-3-2	Not applicable	Not applicable
Voltage changes, voltage fluctuations and flicker EMISSIONS - IEC 61000-3-3	Not applicable	Not applicable

Immunity tests	IEC 60601-1-2 ed.4.1 Compliance	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD), IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	Floors shall be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity shall be at least 30 %
Radiated RF electromagnetic field, IEC 61000-4-3	10V/m 80 MHz to 2.7 GHz 80% AM at 1kHz	10V/m 80 MHz to 2.7 GHz 80% AM at 1kHz	Portable and mobile RF communications equipment should be used no closer to any part of LED Adapter , including cables.
IMMUNITY to proximity fields from RF wireless communications equipment, IEC 61000-4-3	Levels of table below	Levels of table below	
Conducted RF, IEC 61000-4-6	3V 0.15 – 80 MHz 80% AM at 1kHz 6V in ISM and radio amateur bands between [0.15MHz-80MHz]	3V 0.15 – 80 MHz 80% AM at 1kHz 6V in ISM and radio amateur bands between [0.15MHz-80MHz]	
Electrostatic fast transient / burst, IEC 61000-4-4	Not applicable	Not applicable	Not applicable
Surge, IEC 61000-4-5	Not applicable	Not applicable	Not applicable
Power frequency magnetic field IEC 61000-4-8	30 A/m (50/60 Hz)	30 A/m (50/60 Hz)	Power frequency magnetic fields should be at levels characteristic of a location in a typical domestic, commercial or hospital environment

Immunity tests	IEC 60601-1-2 ed.4.1 Compliance	Compliance level	Electromagnetic environment - guidance
Voltage dips, short interruptions and voltage variations on power supply IEC 61000-4-11	Not applicable	Not applicable	Not applicable
Immunity to proximity magnetic fields IEC 61000-4-39	8 A/m (30 kHz, CW) 65 A/m (134.2 kHz, PM 2.1 kHz) 7.5 A/m (7.5 kHz, PM, 50 kHz)	8 A/m (30 kHz, CW) 65 A/m (134.2 kHz, PM 2.1 kHz) 7.5 A/m (7.5 kHz, PM, 50 kHz)	Power frequency magnetic fields should be at levels characteristic of a location in a typical domestic, commercial or hospital environment

Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment

Test Frequency (MHz)	Modulation	Immunity test level (V/m)
385	Pulse modulation 18 Hz	27
450	FM, ± 5 kHz deviation 1 kHz sine	28
710	Pulse modulation 217 Hz	9
745		
780		
810	Pulse modulation 18 Hz	28
870		
930		

Test Frequency (MHz)	Modulation	Immunity test level (V/m)
1720	Pulse modulation 217 Hz	28
1845		
1970		
2450	Pulse modulation 217 Hz	28
5240	Pulse modulation 217 Hz	9
5500		
5785		