







### Insulation and electric strength testing of luminaires

Electronic devices can be damaged by high voltage. This has to be considered during the routine testing of the luminaires in production.

According to IEC 60598-1 Annex Q (informative only!) or ENEC 303-Annex A, each luminaire should be submitted to an insulation test with 500V<sub>DC</sub> for 1 second. This test voltage should be connected between the interconnected phase and neutral terminals and the earth terminal.  
The insulation resistance must be at least 2MΩ.

As an alternative, IEC 60598-1 Annex Q describes a test of the electrical strength with 1500V<sub>AC</sub> (or 1.414 x 1500V<sub>DC</sub>). To avoid damage to the electronic devices this test must not be conducted.

### Maximum number of switching cycles

All LED Driver are tested with 50,000 switching cycles.  
The actually achieved number of switching cycles is significantly higher.

### Conditions of use

The LED Driver is declared as inbuilt LED controlgear, meaning it is intended to be used within a luminaire enclosure.  
If the product is used outside a luminaire, the installer must provide suitable protection for people and environment (e.g. in illuminated ceilings).

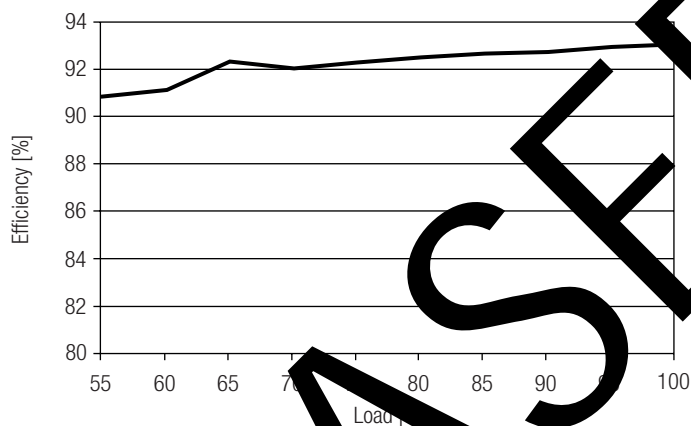
### Additional information

Additional technical information at [www.tridonic.com](http://www.tridonic.com) → Technical Data

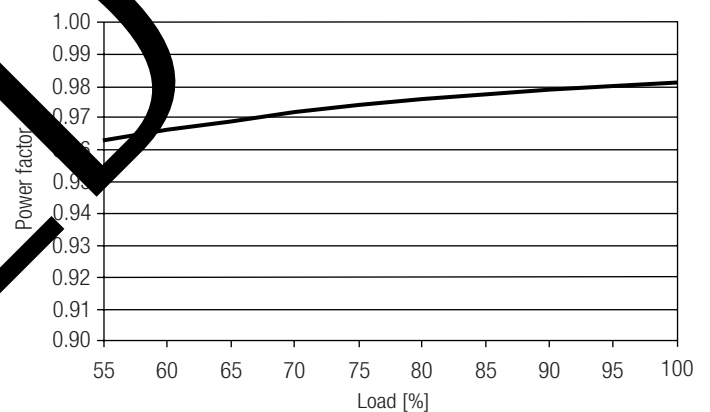
Lifetime declarations are informative and represent no warranty claim.  
No warranty if device was opened.

### Diagrams for 24 V

Efficiency vs load



Power factor vs load



THD [%]

