



Guarantee terms for Spectral laser tubes, laser systems, power supplies.

The guarantee lasts 24 months from the date of issue of the Document of Transport or Accompanying Invoice.

The guarantee service involves the repair, refill or free substitution of the product that manifest malfunction or failure imputable to defects of construction or materials.

The defective product must be sent to our headquarters free of charge (EXW), adequately packed, equipped with the relative document of transport and the description of the defect.

The repaired or replaced product will be returned freight collect.

The guarantee is void in case of tampering or removal of the recognition code marked on the label applied; such code is also marked on others parts of the product.

The guarantee is not applicable to products for which it has not been corresponded the total payment in the terms agreed between the purchaser and Spectral.

Not covered under guarantee is damage caused by mechanical, electrical and temperature stresses in excess of the operating parameters specified in the product data-sheet or by improper use.

The present guarantee replaces whichever guarantee or other disposition established for law in quality matter or suitability of the products to specific uses, except those dispositions that for law cannot be derogated.

The optical power emitted from our laser sources is guaranteed as follows.

Helium-Neon Lasers (operation in continuous emission, constant power):

- for the first 5,000 hours of operation output power greater than the minimum specified, measured after 3 minutes of warm-up
- between the 5,000 and 10,000 hours of operation output power not less than 15% of the minimum specified, measured after 3 minutes of warm-up
- beyond the 10,000 hours progressive decay of the power until the exhaustion of the laser tube

CO2 Lasers (CW or pulsed operation, variable power):

the rate of decay of output power depends from the main operating parameters, like current, frequency, duty-cycle, temperature.

In case of continuous and semi-continuous operation (es. plotters for cutting or medical laser therapy) it is guaranteed as follows:

model CTM300 at 14mA operating current	>14W to the delivery	>7W after 8,000 hours of operation *
model CTS500 at 30mA operating current	>45W to the delivery	>22W after 8,000 hours of operation **
model CTS1000 at 35mA operating current	>70W to the delivery	>35W after 8,000 hours of operation **
model CTS1100 at 35mA operating current	>80W to the delivery	>40W after 8,000 hours of operation **
model CTS1200 at 35mA operating current	>100W to the delivery	>50W after 8,000 hours of operation **
model CTS1300 at 35mA operating current	>120W to the delivery	>60W after 8,000 hours of operation **

* In case of use at 18mA maximum current with our power supplies

** In case of use at 25mA maximum current with our power supplies.

In case of pulsed operation (es. Marking or Surgery) or CW current up to 35mA the power decay is reduced from 10 to 40% of the values over specified..

The greater lifetime reduction occurs operating at frequencies from 10 to 300Hz

Updated on September 01, 2020

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