

IS50A-1KW-RSI

Water-cooled integrating sphere detector for laser power measurement up to 1000 W.



PRODUCT FAMILY KEY FEATURES

FASTEST RESPONSE

With its silicon sensor, the integrating sphere is as fast as a photodiode.

HIGH AVERAGE POWER

Measure up to 1000 W of continuous power.

RESISTANT COATING

Our proprietary coating is designed to be strong. Its damage thresholds are orders of magnitude higher than any other "white" coatings on the market.

PRECISE CALIBRATION

The IS detectors have a NIST-traceable calibration for there entire calibrated spectral range. Temperature compensation completes the calibration to give you the most accurate and stable measurements.

CHOICE OF OUTPUT

The IS detectors are available with two output options:

- INTEGRA with USB output (-INT)
- INTEGRA with RS-232 output (-IDR)

COMPATIBLE STAND

STAND-S-443-C

SPECIFICATIONS

MEASUREMENT CAPABILITIES	
Maximum average power (continuous)	1000 W
Noise equivalent power ¹	10 μW
Spectral range	340 - 1100 nm
Typical rise time	0.2 sec
Linearity with power	±1 %
Sphere inner diameter	100 mm Ø
Maximum incidence angle	± 10°
Maximum divergence	10° (half-angle)
Power Calibration Uncertainty	±5.0 % (405 - 499 nm) ±3.5 % (500 - 1063 nm) ±2.5 % (1064 nm)

1. At 1070 nm. Nominal value. Actual value depends on environmental electromagnetic interference and wavelength.

DAMAGE THRESHOLDS

MEACHDEMENT CADADILITIES

Maximum average power density ¹	5 kW/cm ²
Maximum energy density ²	400 mJ/cm ²

1. At 1064 - 1070 nm, CW. May vary with wavelength and average power.

2. At 1064 - 1070 nm, 7 ns. May vary with wavelength and pulse width.

PHYSICAL CHARACTERISTICS

Aperture diameter	50 mm
Dimensions	127H x 140W x 115D mm

4 kg Weight

ORDERING INFORMATIONS

IS50A-1KW-RSi 205483 IS50A-1KW-RSi-INT-D0 205483

IS50A-1KW-RSi-IDR-D0 205484

INTERESTED IN THIS PRODUCT?



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