

UP50N-50F-W9-D0

Thermal detector for laser power measurement up to 50 W.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

Increase the power capability of your detector: 4 different cooling modules

VERY HIGH DAMAGE THRESHOLD

100 kW/cm² in average power density

VERY LARGE APERTURE

50 mm effective aperture diameter, perfect for the largest beams

HIGHEST ENERGY READINGS IN THE SERIES

Measure single shot energy up to 500 ${\tt J}$

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-443

SPECIFICATIONS

MEASUREMENT CAPABILITIES	
Maximum average power (continuous)	50 W
Maximum average power (1 minute)	85 W
Noise equivalent power ¹	5 mW
Spectral range ²	0.193 - 10 µm
Typical rise time ³	3.5 s
Power calibration uncertainty ⁴	±2.5 %
Repeatability	±0.5 %
1 New includes a standard to the decrease of a standard or in the account of the standard or in the standard	

- 1. Nominal value, actual value depends on electrical noise in the measurement system.
- 2. For the calibrated spectral range, see the user manual.
- 3. With anticipation.
- 4. Including linearity with power.

MEASUREMENT CAPABILITIES (ENERGY MODE)

MEASOREMENT CALABIETTES (ENERGY MODE)	
Maximum measurable energy ¹	500 J
Noise equivalent energy ²	0.25 J
Minimum repetition period	11.1 s
Maximum pulse width	467 ms
Energy calibration uncertainty ³	±5 %

- 1. For 360 μs pulses. Higher pulse energy possible for long pulses (ms), less for short pulses (ns).
- 2. Nominal value, actual value depends on electrical noise in the measurement system.
- 3. When single-shot energy calibration is purchased

DAMAGE THRESHOLDS

Maximum average power density ^l	100 kW/cm ²
Maximum energy density ²	1.1 J/cm ²

- 1. At 1064 nm, 10 W CW. May vary with wavelength and average power.
- 2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

PHYSICAL CHARACTERISTICS

Cooling

Aperture diameter	50 mm
Absorber	W
Dimensions	92H x 92W x 120D mm
Weight	1.38 kg
ORDERING INFORMATION	
UP50N-50F-W9-D0	200894B
UP50N-50F-W9-BLU-D0	203685B
UP50N-50F-W9-INT-D0	203063B
UP50N-50F-W9-IDR-D0	203371

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

INTERESTED IN THIS PRODUCT?

GET A QUOTE

Find your local sales representative at gentec-eo.com/contact-us