

UP50N-40S-W9-D0

Thermal detector for laser power measurement up to 40 W.



PRODUCT FAMILY KEY FEATURES

THIS PRODUCT HAS BEEN SUPERSEDED. CHECK THIS PAGE FOR THE NEW PRODUCT.

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)	40 W
Maximum average power (1 minute)	80 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 %
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- 1. Nominal value, actual value depends on electrical noise in the measurement system.
- 2. For the calibrated spectral range, see the user manual.
- With anticipation.
- 4. Including linearity with power.

MEASUREMENT CAPABILITIES (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 ¹	100 kW/cm ²
Maximum energy density ²	1.1 J/cm²

- 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 Convection

Aperture diameter	50 mm
Absorber	W
Dimensions	89H x 89W x 38D mm
Weight	0.62 kg
ORDERING INFORMATION	
UP50N-40S-W9-D0	200893
UP50N-40S-W9-BLU-D0	203676
UP50N-40S-W9-INT-D0	203059
UP50N-40S-W9-IDR-D0	203369

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