

UP55N-100H-H9-D0

Thermal detector for laser power measurement up to 100 W.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

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

HIGH PERFORMANCE

- Fast Rise Time (2 sec)
- High Damage Threshold (45 kW/cm²)

COMPACT DESIGN

Only 32 mm thick (40S model)

ENERGY MODE

Measure single shot energy up to 200 ${\tt J}$

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-443

SPECIFICATIONS

MEASUREMENT CAPABILITIES	
Maximum average power (continuous)	100 W
Maximum average power (1 minute)	200 W
Noise equivalent power ¹	5 mW
Spectral range ²	0.193 - 20 μm
Typical rise time ³	2 s
Power calibration uncertainty ⁴	±2.5 %
Repeatability	±0.5 %

- 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)

MEASUREMENT CAPABILITIES (ENERGY MODE)	
Maximum measurable energy ¹	200 J
Noise equivalent energy ²	0.25 J
Minimum repetition period	11.1 s
Maximum pulse width	433 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 energy density²

45 kW/cm² Maximum average power density¹ 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. Damage thresholds vary with pulse width. Use our Product Finder or contact Gentec-EO to know about damage thresholds for different pulse widths.

PHYSICAL CHARACTERISTICS

Cooling Convection (heatsink)

Aperture diameter	55 mm
Absorber	Н9
Dimensions	89H x 89W x 106D mm
Weight	0.93 kg
ORDERING INFORMATION	
UP55N-100H-H9-D0	200219
UP55N-100H-H9-INT-D0	202629
UP55N-100H-H9-BLU-D0	203694
UP55N-100H-H9-IDR-D0	203379

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