

±0.5 %



UP55N-300F-H12-D0

Thermal detector for laser power measurement up to 300 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 J

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-443

SPECIFICATIONS

Maximum average power (continuous)	300 W
Maximum average power (1 minute)	300 W
Noise equivalent power ¹	15 mW
Spectral range ²	0.193 - 20 µm
Typical rise time ³	2 s
Power calibration uncertainty ⁴	±2.5 %

- 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.

Repeatability

4. Including linearity with power.

Power calibration uncertainty⁴

MEASUREMENT CAPABILITIES

MEASUREMENT CAPABILITIES (ENERGY MODE)

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Maximum measurable energy ¹	200 J	
Noise equivalent energy ²	0.25 J	
Minimum repetition period	12 s	
Maximum pulse width	430 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	45 kW/cm ²
Maximum energy density ²	1J/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

Fan Cooling





Aperture diameter	55 mm
Absorber	H12
Dimensions	92H x 92W x 117D mm
Weight	1.41 kg
ORDERING INFORMATION	
UP55N-300F-H12-D0	201157B
UP55N-300F-H12-INT-D0	202631B
UP55N-300F-H12-BLU-D0	203703B
UP55N-300F-H12-IDR-D0	203384

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

INTERESTED IN THIS PRODUCT?

GET A QUOTE

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