

## UP55G-600F-HD-D0

Thermal detector for laser power measurement up to 600 W.



### PRODUCT FAMILY KEY FEATURES

#### HIGH DENSITY ABSORBER

The HD absorber is the strongest on the market for use at high powers, presenting both high average power handling and high power density capabilities

#### NO NEED FOR WATER-COOLING

Unique on the market, measure 600 W of continuous power without the need for water-cooling. Just plug the fan and you are ready to go!

#### SMART INTERFACE

Containing all the calibration data

#### COMPATIBLE STAND

[STAND-S-443-C](#)

## SPECIFICATIONS

### MEASUREMENT CAPABILITIES

Maximum average power (continuous)	600 W
Maximum average power (1 minute)	600 W
Noise equivalent power <sup>1</sup>	45 mW
Spectral range <sup>2</sup>	0.193 - 20 $\mu\text{m}$
Typical rise time <sup>3</sup>	5 s
Power calibration uncertainty <sup>4</sup>	$\pm 2.5\%$
Repeatability	$\pm 0.5\%$

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)

Maximum measurable energy <sup>1</sup>	200 J
Noise equivalent energy <sup>2</sup>	0.25 J
Minimum repetition period	12 s
Maximum pulse width	430 ms
Energy calibration uncertainty <sup>3</sup>	$\pm 5\%$

1. For 360  $\mu\text{s}$  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 <sup>1</sup>	45 kW/cm <sup>2</sup>
Maximum energy density <sup>2</sup>	1 J/cm <sup>2</sup>

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	Fan
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Aperture diameter	55 mm
Absorber	HD
Dimensions	120H x 120W x 135D mm
Weight	2.75 kg

#### ORDERING INFORMATION

UP55G-600F-HD-D0	201878B
UP55G-600F-HD-IDR-D0	205134
UP55G-600F-HD-BLU-D0	203721B
UP55G-600F-HD-INT-D0	203197B

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](https://gentec-eo.com/contact-us)