

UP100R-50S-H12-D0

Thermal detector for laser power measurement up to 50 W.



PRODUCT FAMILY KEY FEATURES

NEW!

HIGH PERFORMANCE

- Large aperture
- High damage threshold (45 kW/cm²)

ENERGY MODE

Measure single shot energy up to 700 J

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

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

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power (continuous)	50 W
Maximum average power (1 minute)	100 W
Noise equivalent power ¹	20 mW
Spectral range	0.193 - 20 μm
Typical rise time ²	5 s
Power calibration uncertainty ³	±2.5 %
Repeatability	±0.5 %

1. Nominal value, actual value depends on electrical noise in the measurement system.

2. With anticipation.

3. Including linearity with power.

MEASUREMENT CAPABILITIES (ENERGY MODE)

Typical energy sensitivity	0.0017 mV/J
Maximum measurable energy ¹	700 J
Noise equivalent energy ²	2 J
Minimum repetition period	30 s
Maximum pulse width	1000 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	45 kW/cm ²
Maximum energy density	1 J/cm ²

PHYSICAL CHARACTERISTICS

Cooling	Convection
Aperture diameter	100 mm

Absorber	H12
Dimensions	125H x 125W x 17D mm
Weight	0.62 kg

ORDERING INFORMATION

- UP100R-50S-H12-D0
- UP100R-50S-H12-INT-D0
- UP100R-50S-H12-IDR-D0

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