

### 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# THIS PRODUCT HAS BEEN SUPERSEDED.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/cm<sup>2</sup> 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 <sup>1</sup>	5 mW
Spectral range <sup>2</sup>	0.193 - 10 µm
Typical rise time <sup>3</sup>	3.5 s
Power calibration uncertainty <sup>4</sup>	±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 <sup>1</sup>	500 J
Noise equivalent energy <sup>2</sup>	0.25 J
Minimum repetition period	11.1 s
Maximum pulse width	467 ms
Energy calibration uncertainty <sup>3</sup>	±5 %

- 1. For 360  $\mu s$  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>	100 kW/cm <sup>2</sup>
Maximum energy density <sup>2</sup>	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