

UP50N-40S-W9-D0

Thermal detector for laser power measurement up to 40 W.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

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

VERY HIGH DAMAGE THRESHOLD

100 kW/cm² 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

40 W
80 W
5 mW
0.193 - 10 µm
3.5 s
0.12 mV/W
±2.5 %
±0.5 %

5. Including linearity with power.

MEASUREMENT CAPABILITIES (ENERGY MODE)

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Maximum measurable energy ¹	500 J
Noise equivalent energy ²	0.25 J
Minimum repetition period	11.1 s
Maximum pulse width	467 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 ¹	100 kW/cm ²
Maximum energy density ²	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?



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