gentec-eo
PARTNERS for ACCURACY

UP55N-50S-VR-D0

Thermal detector for laser power measurement up to 50 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THIS PRODUCT HAS BEEN SUPERSEDED.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

HIGH PEAK POWER VOLUME ABSORBER

- Perfect for high density beams
- Average power density of 700 W/cm^2 prevents degradation caused by repetitive pulses

LARGE APERTURE

55 mm aperture to accomodate the largest beams

HIGH AVERAGE POWER

Up to 200 W of continuous power with the watercooled unit

ENERGY MODE

Measure single shot energy up to 500 J

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-443

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power (continuous)	50 W
Maximum average power (1 minute)	50 W
Noise equivalent power[1]	15 mW
Spectral range[2]	0.3 - 2.5 µm
Typical rise time[3]	4 s
Power calibration uncertainty[4]	±2.5 %
Repeatability	±0.5 %

1. Nominal value, actual value depends on electrical noise in the measurement system.
2. This spectral range refers to the calibration traceability.
3. With anticipation.
4. Including linearity with power.

MEASUREMENT CAPABILITIES (ENERGY MODE)

Maximum measurable energy[1]	500 J
Noise equivalent energy[2]	0.25 J
Minimum repetition period	11.1 s
Maximum pulse width	433 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]	700 W/cm²
Maximum energy density[2]	6 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	55 mm
Absorber	VR
Dimensions	89H x 89W x 35D mm
Weight	0.62 kg

ORDERING INFORMATION

UP55N-50S-VR-D0	201295
UP55N-50S-VR-IDR-D0	203389
UP55N-50S-VR-INT-D0	202643
UP55N-50S-VR-BLU-D0	203712

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