

## UP55C-2.5KW-HD-D0

Thermal detector for laser power measurement up to 2500 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.

### PERFORMANCE AND SPEED AT A LOW PRICE

Measures both very low and very high powers (up to 2 500 W) with a fast response time. A compact and versatile detector that is more affordable than any other high power solution on the market.

+0.5 %

### **SMART INTERFACE**

Containing all the calibration data

### **COMPATIBLE STAND**

STAND-S-443-C

## **SPECIFICATIONS**

| Maximum average power (continuous) <sup>1</sup> | 2500 W        |
|---|---------------|
| Maximum average power (1 minute) <sup>2</sup>   | 2500 W        |
| Noise equivalent power <sup>3</sup>             | 200 mW        |
| Spectral range <sup>4</sup>                     | 0.193 - 20 μm |
| Typical rise time <sup>5</sup>                  | 3.5 s         |
| Power calibration uncertainty <sup>6</sup>      | ±2.5 %        |
|   |               |

- 1. Minimum cooling flow 3 liters/min, water temperature  $\leq$  22°C, 1/8 NPT compression fittings for 1/4 inch semi-rigid tube. Contact Gentec-EO for clean deionized water cooling module
- 2. Minimum cooling flow 3 liters/min, water temperature  $\leq$  22°C, 1/8 NPT compression fittings for 1/4 inch semi-rigid tube. Contact Gentec-EO for clean deionized water cooling module
- 3. Nominal value, actual value depends on electrical noise in the measurement system.
- 4. For the calibrated spectral range, see the user manual.
- 5. With anticipation.

Repeatability

6. Including linearity with power.

MEASUREMENT CAPABILITIES

### DAMAGE THRESHOLDS

45 kW/cm<sup>2</sup> Maximum average power density 1 J/cm<sup>2</sup> Maximum energy density<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. May vary with wavelength and pulse width.

### PHYSICAL CHARACTERISTICS

| Cooling           | Water |
|-------------------|-------|
| Aperture diameter | 55 mm |
| Absorber          | HD    |
|                   |       |

116H x 116W x 37D mm Dimensions Weight 3.3 kg

## ORDERING INFORMATION

## UP55C-2.5KW-HD-D0

202174

| UP55C-2.5KW-HD-BLU-D0 | 203543 |
|-----------------------|--------|
| UP55C-2.5KW-HD-INT-D0 | 203195 |
| UP55C-2.5KW-HD-IDR-D0 | 205133 |

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

# **INTERESTED IN THIS PRODUCT?**



Find your local sales representative at gentec-eo.com/contact-us