



HP500A-120KW-HD-D0

High power detector for laser power measurement up to 120 000 $\,\mathrm{W}$



PRODUCT FAMILY KEY FEATURES

CUSTOM-BUILT

Contact us with your requirements for a version tailored to your needs

THE HIGHEST POWER HANDLING

Custom models handle up to 120 000 W of continuous power. Higher powers are available upon request.

STABLE READING

Less sensitive to variations in water cooling temperature than any other highpower water-cooled meter on the market.

INFINITE CUSTOMIZATION CAPABILITIES

- Choose your size
- Choose your maximum power
- We will customize one just for you!

COMPACT AND LIGHT WEIGHT

Lighter and more compact than any other high-power detector on the market, thanks to our unique design.

AVAILABLE WITH YAG AND CO2 CALIBRATION

All HP models can be calibrated at YAG and ${\rm CO_2}$ wavelengths with a calibration uncertainty of +/- 5%.

DIRECT USB CONNECTION TO A PC

Each head comes with both a DB-15 connector (for use with a Gentec-EO monitor) and a USB2.0 output for direct connection to a PC. Other connectors are available upon request.

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power (continuous)	150000 W
Minimum average power ¹	6000 W
Noise equivalent power ²	300 W
Spectral range	0.193 - 20 μm
Typical rise time	60 s
Power calibration uncertainty	±5 %
Back reflections	~ 15 %

- For lower powers, call your Gentec-EO representative.
- 2. Depending on cooling water flow and temperature stability

WATER REQUIREMENTS

Required cooling flow ¹	(36 - 48) LPM < ±1 LPM/min
Temperature range	15 – 25 °C
Rate of temperature change	< ±1°C/min
Maximum water pressure	621 kPa (90 psi)

1. Contact Gentec-EO for clean deionized water cooling module option.

DAMAGE THRESHOLDS

Maximum average power density¹ 3.5 kW/cm²





CONTROLLER AND GUI SPECIFICATIONS	
Data display	Real time, scope, needle, averaging, histogram and statistics
Analog output ¹	0-2 Volts
Serial commands via	USB
External power supply ²	Through USB or Gentec-EO displays & PC interfaces
Display type	None
1. 12 V maximum output signal available upon request. 2. A USB power adaptor will be necessary if the HP is used with a DB-15 extension cable.	
PHYSICAL CHARACTERISTICS	
Cooling	Water
Aperture width	500 mm
Aperture height	500 mm
Absorber	HD
Dimensions	525H x 525W x 90D mm
ORDERING INFORMATION	

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