



gentec-() PARTNERS for ACCURACY

HP500A-120KW-HD-D0

High power detector for laser power measurement up to 120 000 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

MEASOREMENT 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 %
1. 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

1. At 1064 nm, 1.07-1.08 µm and 10.6 µm, 10 kW CW. Refer to user manual for damage threshold at other powers. May vary with wavelength and average power.





Instrument Expert Original factory packaging www.dorgean.com

0-2 Volts

USB

None

Water

500 mm

500 mm

Custom

525H x 525W x 90D mm

HD

CONTROLLER AND GUI SPECIFICATIONS Real time, scope, needle, averaging, histogram and statistics Data display Analog output¹ Serial commands via Through USB or Gentec-EO displays & PC interfaces External power supply² Display type 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 Aperture width Aperture height

Absorber

Dimensions

ORDERING INFORMATION

HP500A-120KW-HD-D0

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