

## HP60A-15KW-GD-QBH-MET-D0

High power detector for laser power measurement up to 15000 W. Includes QB/QBH fiber adaptor.



## PRODUCT FAMILY KEY FEATURES

#### HIGH POWER HANDLING

Handles up to 30 kW of continuous power with our standard models. Custom models are available for higher powers (See SUPER HP).

#### STABLE READING

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

#### LARGE APERTURE

Our standard HP models (4KW, 12KW, 15KW and 30KW) have a very large effective aperture of up to 280 mm to accommodate even the largest laser beams. Larger apertures with various shapes are available upon request (See SUPER HP).

### 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.

## **SPECIFICATIONS**

### MEASUREMENT CAPABILITIES

Maximum average power (continuous)	15000 W
Minimum average power <sup>1</sup>	500 W
Noise equivalent power <sup>2</sup>	15 W
Spectral range	0.8 - 12 µm
Typical rise time	15 s
Typical power sensitivity	0.13 mV/W
Power calibration uncertainty	±5 %
Repeatability	±2 %
Back reflections	1 - 2 %
Linearity with power	±2 %
Linearity vs beam diameter	±2.5 %
Linearity vs beam position <sup>3</sup>	±4 %
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- 1. For lower powers, call your Gentec-EO representative.
- 2. Nominal value. Actual value depends on electrical noise in the measurement system. 3. For a beam size of 20% of the aperture area, moved across 80% of the aperture area.

## WATER REQUIREMENTS

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Required cooling flow <sup>1</sup>	(8 - 10) LPM < ±1 LPM/min
Temperature range	15 – 25 °C
Rate of temperature change	< ±3°C/min
Maximum water pressure	413 kPa (60 psi)

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

## DAMAGE THRESHOLDS

Maximum average power density<sup>1</sup> 80 kW/cm<sup>2</sup>

CONTROLLER AND GUI SPECIFICATIONS	
Data display	Real time, scope, needle, averaging, histogram and statistics
Analog output <sup>1</sup>	0-2 Volts
Serial commands via	USB
External power supply <sup>2</sup>	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 diameter	70 mm
Absorber	GD
Dimensions	153H x 153W x 386D mm
Weight	16 kg
ORDERING INFORMATION	

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

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# **INTERESTED IN THIS PRODUCT?**



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