

## **OUTPUT OPTIONS**

- > SMART DB15 CONNECTOR
  Contains all the calibration data
- USB PORT
  - Connects directly to a PC
  - Included in all HP models
- > BLU WIRELESS METER Connects via Bluetooth to a PC

## **COMPATIBLE DISPLAYS & PC INTERFACES**







MIRO ALTITUDE

MAESTRO

TUNER



UNO

## **KEY FEATURES**

- HIGH POWER HANDLING Handles up to 15 kW of continuous power. Custom models available for higher powers.
- > LOW BACK REFLECTIONS

The cone reflector traps most of the incident laser power inside the detector head. With its TUBE extension, the HP60A-15KW-GD-TUBE has the lowest back reflection rating: under 2%.

- > AVAILABLE WITH YAG AND CO<sub>2</sub> CALIBRATIONS All HP models can be calibrated at YAG and CO<sub>2</sub> wavelengths with a calibration uncertainty of ± 5%
- DIRECT USB CONNECTION TO A PC Each head comes with both a DB15 connector (for use with a Gentec-EO display device) and a USB output for direct connection to a PC
- TRACK WATER PARAMETERS Water flow and temperature are monitored in real time and displayed continuously

## **ACCESSORIES**



Stand with steel post



Water filter (Metric: 202984, Imperial: 202990)



Extension cables (4, 15, 20 or 25 m)\*



Pelican carrying case



\*A USB power adaptor will be necessary if the HP is used with a DB15 extension cable.









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	HP60A-10KW-GD	HP60A-15KW-GD	HP60A-15KW-GD-TUBE
MAXAVERACE POWER	lOkW	15kW	15kW
EFFECTIVE APERTURE	60mm!l>	60mm!I>	70mm!l>
COOLINC METHOD	Water-cooled	Water-cooled	Water-cooled
MEASUREMENT CAPABILITY			
Spectral range	0.8-12 μm	0.8-12 μm	0.8-12 μm
Calibrated spectral range•	0.8-2.1 µm	0.8-2.1 µm	0.8-2.1 µm
Noise equivalent power b	IOW	15W	15W
Minimum average power'	300W	500W	500W
Rise time (nominal)	12s	Бs	<b>1</b> 5 s
Back reflections	10%	5-10%	1-2%
Calibration uncertainty	± 5% at 1064 nm & 1070 nm	± 5% at 1064 nm & 1070 nm	± 5% at 1064 nm & 1070 nm
Repeatability	±2%	±2%	±2%
Linearity with power	±2%	±2%	±2%
Linearity with beam diameter	±2.0%	±2.5%	±2.5%
Linearity with beam position •	±3.0%	±4.0%	±4.0%
DAMACE THRESHOLDS			
Maximum average power density•			
IkW	70kW/cm²	70kW/cm²	70kW/cm²
SkW	35 kW/cm'	35 kW/cm'	35kW/cm'
lOkW	20 kW/cm'	20kW/cm'	20kW/cm'
ISkW		10 kW/cm'	lOkW/cm'
PHYSICAL CHARACTERISTICS			
Effective aperture	60mm!I>	60mm!l>	70 mm ⊳ tube aperture
Absorber	GD (cone reflector)	GD (cone reflector)	GD (cone reflector)
Cooling water			
Required cooling flow'	(6 - 8) LPM < ±1 LPM/min	$(8 - 10)$ LPM $< \pm 1$ LPM/min	(8 -10) LPM < ±1LPM/min
Temperature range	15- 25 'C	15-25 °C	15 - 25 'C
Rate of temperature change	<±3'C/min	<±3'C/min	<±3°C/min
Maximum water pressure (input)	413 kPa (60 psi)	413 kPa (60 psi)	413 kPa (60 psi)
Dimensions	127H x 127W x 97D mm	153H x 153W x 97D mm	153H x 153W x 272D mm
Weight	6kg	10kg	15kg
ORDERINC INFORMATION			
Available output options	DB15 & USB or Bluetooth & USB	DB15 & USB or Bluetooth & USB	DB15 & USB or Bluetooth & USB
Compatible stand	STAND-S-443-C	2x STAND-S-443-C	3x STAND-S-443-C
Product page			

- a Calibrations at 21 to 2.5 µm and 10.6 µmare available on special request.
  b Nominal value, actual value depends on electrical noise in the measurement system.

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- c. For lower powers, call your Gentec-EO representative.
  d. For a beam size of 20% of the aperture area, moved across 80% of the aperture area.
- e At 1064 nm, I.07-7.08 µm and 10.6 µm, for beams< 50 mm 0. f >I min. contact Gentec-EO for deionized water cooling module option.

Specifications are subject to change without notice T 418.657.8003 I info@gentec-eo.com



