

HP60(70)A



60 - 70 mm Ø, 3 W - 10 kW



Key Features

- 1 **High Power Handling**
Handle 3 to 10 kW of continuous power
- 2 **Thermally Stable**
Less sensitive to variations in water cooling temperature
- 3 **Conical Shape**
To prevent unwanted specular back reflections (10KW version only)
- 4 **2 Output Connectors on each head**

- . DB-15 cable : Use this with a Gentec-EO power monitor
- . USB port : If you prefer to link the head directly to your computer



HP60A-3KW-HE

HP70A-10KW-HD

NEW

Output Connectors included



DB-15



USB

See also

. How it works	14
. Calibration	6
. Detailed dimensions	78
. Spectral absorption	107
. Compatible monitors	
SOLO 2	20
UNO	22
S-LINK-2	24
P-LINK	26

Accessories

- » **Spare USB Cable (for USB Version only)**
To link the HP60A directly to your computer



- » **Extension Cables (4, 15, 20 and 25 m)**
For some OEM, manufacturing and laboratory applications.





- » **Pelican Carrying Case**
We offer a robust hard shell polymer carrying case.



HP60(70)A

SPECIFICATIONS

Models	HP60A-3KW-HE	HP70A-10KW-HD
		
Max Average Power (continuous)	3 000 W	10 000 W
Max Average Power (5 minutes)	4 000 W	10 000 W
MEASUREMENT CAPABILITY	3 kW	10 kW
Spectral Range	0.19 – 20 μm	0.19 – 20 μm
Noise Equivalent Power ^a	3 W	10 W
Rise Time (nominal)	7 sec	9 sec
Sensitivity (typical into 100 k Ω load)	0.5 mV/W	0.2 mV/W
Calibration Uncertainty	$\pm 5\%$ @ 1064 nm	$\pm 5\%$ @ 1064 nm
Repeatability	$\pm 2\%$	$\pm 2\%$
Linearity with Power	$\pm 2\%$	$\pm 2\%$
Spatial Uniformity	$\pm 1\%$	$\pm 1\%$
DAMAGE THRESHOLDS		
Maximum Average Power Density ^b	10 kW/cm ²	15 kW/cm ²
PHYSICAL CHARACTERISTICS		
Effective Aperture Diameter	60 mm \emptyset	70 mm \emptyset , conical
Absorber (High Damage Threshold)	HE	HD
Required Cooling Flow	(4 - 6) LPM $\leq \pm 1$ LPM/min ^c	(6 - 10) LPM $\leq \pm 1$ LPM/min ^c
Temperature of Cooling Water	(15 - 25) $^{\circ}\text{C} \leq \pm 3^{\circ}\text{C}/\text{min}$ ^c	(15 - 25) $^{\circ}\text{C} \leq \pm 3^{\circ}\text{C}/\text{min}$ ^c
Output Connectors	DB-15 cable & USB port	DB-15 cable & USB port
PCB Electrical Supply	Through USB or Gentec-EO monitors	Through USB or Gentec-EO monitors
Maximum Output Signal	2 V	2 V
Dimensions	127H x 127W x 74D mm	127H x 127W x 84D mm
Weight (head only)	1.8 kg	5 kg
ORDERING INFORMATION		
Full Product Name	HP60A-3KW-HE	HP70A-10KW-HD
Product Number (including stand)	201184	201185

a. Nominal value, actual value depends on electrical noise in the measurement system.

b. At 1064 nm, 500 W CW.

c. > 1 min.

America

Canada
United States
South America

Europe

Austria
Belgium
France
Germany
Ireland
Italy
Poland
Russia
Spain
Sweden
Scandinavia
Switzerland
The Netherlands
Turkey
United Kingdom

Asia Pacific

China
India
Indonesia
Israel
Japan
Korea
Malaysia
Philippines
Singapore
Taiwan
Thailand
Vietnam

Oceania

Australia
New Zealand



gentec-EO

Leader in Laser Beam Measurement Since 1972

Headquarters

445 St-Jean-Baptiste, Suite 160
Québec, QC, G2E 5N7, CANADA

T (418) 651-8003
F (418) 651-1174
1.888.5Gentec (543.6832)

info@gentec-eo.com

Calibration Centers

Quebec City, Canada
Olching (Munich), Germany

Distributed in the UK by

Lambda
photometrics λ

Batford Mill, Harpenden, Herts., UK, AL5 5BZ

T +44 (0) 1582 764334
F +44 (0) 1582 712084

info@lambdaphoto.co.uk
www.lambdaphoto.co.uk

www.gentec-eo.com