

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



Output Connectors included



DB-15



USB

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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.

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