HIGH POWER HP SERIES SPECIFICATIONS

TYPICAL LASERS	COMMON APPLICATIONS
• Large beam	• Cutting & drilling
• High Power	• UV Machining
• YAG (various)	• Surface manipulation
• Excimer	• Surgery
• DPSSL	• Lithography
• CO_2	• Marking

Models	HP60A-3KW-HE	HP70A-10KW-HD
Max Average Power (continuous)	3 000 W	10 000 W
Max Average Power (1 minute)	3 000 W	10 000 W
MEASUREMENT CAPABILITY	3 kW	10 kW
Spectral Range	0.2 – 20 µm	0.2 – 20 µm
Maximum Measurable Power	3 000 W	10 000 W
Noise Equivalent Power [a]	3 W	10 W
Rise Time (nominal)	7 sec	9 sec
Calibration Uncertainty	±5 % @ 1064 nm ±6 % @ 0.2 - 2.5 µm and 10.6 µm	±5 % @ 1064 nm ±6 % @ 0.2 - 2.5 µm and 10.6 µm
Repeatability	±2 %	±2 %
Linearity with Power	±2 %	±2 %
Spatial Uniformity	±1 %	±1 %
DAMAGE THRESHOLDS		
Maximum Average Power Density	10 kW/cm² @ 1064 nm, 500 W	15 kW/cm² @ 1064 nm, 500 W
PHYSICAL CHARACTERISTICS		
Effective Aperture Diameter	60 mm Ø	70 mm Ø, conical
Absorber (High Damage Threshold)	HE	HD
Required Cooling Flow	(4 - 6) ± 1 Liters per minute	(6 - 10) ± 1 Liters per minute
Temperature of Cooling Water	(18 - 22) ± 3°C / >1 min	(18 - 22) ± 3°C / >1 min
Output Connectors	DB-15 cable & USB port	DB-15 cable & USB port
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.

Distribution in the UK

Lambda photometrics

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