SUPER HP

Custom sizes and shapes, up to 100 000 W upon request



KEY FEATURES

- THE HIGHEST POWER HANDLING
 Custom models handle up to 100 000 W of continuous power
- > INFINITE CUSTOMIZATION CAPABILITIES
 - 1. Choose YOUR size
 - 2. Choose YOUR maximum power
 - 3. We will customize one just for you!
- > COMPACT AND LIGHT WEIGHT

Lighter and more compact than any other high power detector on the market, thanks to our unique design

- AVAILABLE WITH YAG AND CO₂ CALIBRATIONS All HP models can be calibrated at YAG and CO₂ 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 USB2.0 output for direct connection to a PC. Other connectors available upon request
- TRACK WATER PARAMETERS Water flow and temperature are monitored in real time and displayed continuously
- HIGH POWER NIST-TRACEABLE CALIBRATION WITH A 5 KW FIBER LASER

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

ACCESSORIES



Stand with steel post For 30 kW model



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



5 m USB cabl (Included)



Pelican carrying case

SUPER HP Specifications







	HP280A-30KW-HD	CUSTOMIZATION CAPABILITIES
MAX AVERACIE POWER	30000W	UptoI00000W
EFFECTIVE APERTURE	280x280mm	Up to 500 x 500 mm
COOLINCI METHOD	Water-cooled	Water-cooled
MEASUREMENT CAPABILITY		
Spectral range	0.19-20 μm	0.19-20 μm
Calibrated spectral range•	0.248- 21 μm	0.248 - 2.5 µm &10.6 µm
Noise equivalent power b	±25W	Adapted to maximum power
Minimum average power'	1000W	Adapted to maximum power
Rise time (nominal)	25s	S45s
Calibration uncertainty		
at 1064 nm	±5%	±5%
at 0.25- 2.5 μm	±6%	±6%
Repeatability	±2%	±2%
Linearity with power	±2%	±2%
Linearity vs beam diameter•	±2%	±2%
DAMACIE THRESHOLDS		
Maximum average power density•		
lOkW	2.5kW/cm [']	2.5kW/cm [']
25kW	777	0.25kW/cm'
30kW	0.2kW/cm [']	0.2kW/cm'
PHYSICAL CHARACTERISTICS		
Effective aperture	280x280mm	Square apertures up to 400 x 400 mm Rectangular and round apertures also available
Absorber (high damage threshold)	HD	HD
Cooling water		
Required cooling flow	0-30 kW: 05 -18) LPM < ± 1LPM/min ¹ 0-10 kW: (8 -12) LPM < ± 1LPM/min ¹	Adapted to maximum power
Temperature range	15- 25 'C	15-25 °C
Rate of temperature change	<±3°C/min	<±3°C/min
Dimensions	300H x 300W x 92D mm	
Weight (head only)	20kg	
ORDERINCI INFORMATION		
Available output options	DB15 & USB or Bluetooth & USB	DB15 & USB or Bluetooth & USB
Compatible stand	STAND HP280A-30KW-HD	Ask
Product page		



- Calibrations at 21 to 2.5 μm and 10.6 $\mu mare$ available on special request.
- b Nominal value, actual value depends on electrical noise in the measurement system.
 c For lower powers, call your Gentec-EO representative.
 d. For a centered beam with size from 20% to 80% of the total aperture.

- e At 1064 nm, l.07-7.08 μm and 10.6 μm. f >lmin
- >lmin

PRODUCT GUIDE 2022

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

