

11SUPER-HP - High Power Detector *New!*






 *Also traceable to NRC-CNRC

- **The Highest Power Handling**
 Custom models handle up to 25 000 W of continuous power. Higher powers are available upon request
- **Stable Reading**
 Less sensitive to variations in water cooling temperature than any other high power water-cooled meter on the market
- **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
- **Direct USB Connection to a PC**
 Each head comes with both a DB-15 connector (for use with a Standa monitor) and a USB2.0 output for direct connection to a PC. Other connectors available upon request

Model (custom built)	11HP280/100A-10KW-HD	11HP210A-25KW-HD
Max average power (continuous / 5 minute)	10 000 W / 10 000 W	25 000 W / 25 000 W
Effective aperture	280 x 100 mm	210 x 210 mm
Cooling method	Water-Cooled	Water-Cooled
MEASUREMENT CAPABILITY		
Spectral Range	0.19 - 20 μ m	0.19 - 20 μ m
Noise Equivalent Power ¹	± 10 W	± 10 W
Minimum Average Power ²	300 W	300 W
Rise Time (nominal)	20 sec	25 sec
Sensitivity (typ into 100 k Ω load)	0.2 mV/W	0.08 mV/W
Calibration Uncertainty		
@ 1064 nm	± 5 %	± 5 %
@ 810 nm	± 6 %	± 6 %
Repeatability	± 2 %	± 2 %
Linearity with Power	± 2 %	± 2 %
Linearity vs Beam Diameter ³	± 2 %	± 2 %
DAMAGE THRESHOLDS		
Maximum Average Power Density ⁴		
10 kW	2.5 kW/cm	2.5 kW/cm ²
25 kW	---	0.25 kW/cm ²
PHYSICAL CHARACTERISTICS		
Effective Aperture	280 x 100 mm	210 x 210 mm
Absorber (High Damage Threshold)	HD	HD
Required Cooling Flow	(6 - 10) LPM $< \pm 1$ LPM/min ⁵	(12 - 15) LPM $< \pm 1$ LPM/min ⁵
Temperature of Cooling Water	(15 - 25) $^{\circ}$ C $< \pm 1^{\circ}$ C/min ⁵	(15 - 25) $^{\circ}$ C $< \pm 1^{\circ}$ C/min ⁵
Output Connectors	DB-15 cable & USB port	DB-15 cable & USB port
PCB Electrical Supply	Through USB or Standa monitors	Through USB or Standa monitors
Maximum Output Signal	2 V	2 V
Dimensions	152H x 305W x 75D mm	229H x 229W x 80D mm

1. Nominal value, actual value depends on electrical noise in the measurement system.
2. For lower powers, call your Standa representative.
3. For a centered beam with size from 20% to 80% of the total aperture.
4. At 1064 nm, 1.07-1.08 μm and 10.6 μm .
5. Average period > 1 min.

Compatible Monitors:



11MAESTRO



11UNO



11TUNER



11M-LINK



11P-Link

Ordering Information

Model

11HP210A-25KW-HD

11HP280/100A-10KW-HD