

p Series: 100W - 400W Lasers & Performance

Performance	p100	p150
Output Power	100W	150W
Peak Pulse Power	400W	600W
Mode Quality	$M^2 \leq 1.2$	$M^2 \leq 1.2$
Rise/Fall Time	< 40/< 100 μ sec	<50/< 100 μ sec
Beam Waist Diameter	7.5 mm \pm 1.1 mm	8.0 mm \pm 1.1 mm
Beam Divergence (full angle)	1.8mR \pm 0.4mR 2.0mR \pm 0.4mR	1.9mR \pm 0.4mR
Wavelength	10.2 μ m/ 10.6 μ m	9.3 μ m /10.2 μ m/ 10.6 μ m
Power Stability from cold start (guaranteed)/ after 2 min. (typical)	\pm 7%/ \pm 5%	\pm 6%/ \pm 3%
Cooling	Water	Water
Heat Load (max)	2000 W	3200 W
Input Voltage/Current	48 VDC/40A	48 VDC/50A
Dimensions Inches (mm)	22.2 x 5.2 x 6.1 (563 x 132 x 155)	31.4 x 5.2 x 6.1 (798 x 132 x 155)
Weight	30.0 lbs./13.6 kg	40.0 lbs./18.1 kg
Data Sheet	Data Sheets, Technical Drawings, and Manuals can only be downloaded when accessing the full site from a desktop or laptop computer.	
Technical Drawing		
Manual		

Performance	p250	p400
Output Power	250W	400W
Peak Pulse Power	800W	> 1.0 kW
Mode Quality	$M^2 \leq 1.2$	$M^2 \leq 1.2$
Rise/Fall Time	< 60/< 100 μ sec	< 50/< 100 μ sec
Beam Waist Diameter	8.0 mm \pm 1.1 mm	8.0 mm \pm 1.0 mm
Beam Divergence (full angle)	1.9mR \pm 0.4mR	1.8mR \pm 0.4mR
Wavelength	10.2 μ m/ 10.6 μ m	10.6 μ m
Power Stability from cold start (guaranteed)/ after 2 min. (typical)	\pm 5%/ \pm 5%	\pm 7%/ \pm 5%
Cooling	Water	Water
Heat Load (max)	4300 W	8.5.kW
Input Voltage/Current	48 VDC/90A	48 VDC/175A
Dimensions Inches (mm)	49.3 x 12.4 x 7.8 (1252 x 315 x 198)	49.7 x 8.2 x 12.5 (1262 x 208 x 318)
Weight	107 lbs./48.5 kg	130 lbs./59.0 kg
Data Sheet	Data Sheets, Technical Drawings, and Manuals can only be downloaded when accessing the full site from a desktop or laptop computer.	
Technical Drawing		
Manual		

Related Products

Product	Description	Go To
Power Supply	Recommended DC power supply for Synrad lasers	See AC/DC Power Supplies under Accessories for the recommended power supply