

NANOPEAK 100

100 W MOPA Nanosecond Pulsed Fiber Laser



Features & Benefits

- Unique combination of innovative optical fibers and advanced laser technologies guarantee **long-term stability**.
- Higher power – faster processing
- Range of pulses for various applications – offers **flexibility** and complete control
- Pulse waveform selection – pulse widths from 2 to 500 ns
- Output turndown of 5% – offers great flexibility
- Wide range of repetition rates – allows **maximum peak power and pulse energy** for each waveform setting
- Excellent isolator design – safe processing of any material
- Maximum pulse energy: 1 mJ
- Maximum peak power: 15 kW
- Compact and robust – enhancing the ease of OEM integration
- Air-cooled
- Easy-to-use, Plug & Play design
- Maintenance-free
- 2-year standard warranty

Applications

- Laser marking and engraving
- Fine cutting
- Laser layer removal
- Low heat spot welding

Please note that the product may differ slightly from the image.

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Specifications

Optical

Mode of Operation	Pulsed
Polarization	Random
Operating Wavelength (nm)	1064
Nominal Output Power (W)	99 ± 5
Power Stability (%)	< 5
Output Power Tuning Range (%)	5 - 100
Maximum Peak Power (kW)	15
Maximum Peak Energy (mJ)	1.0
Pulse Width Range (ns)	2 - 500
Repetition Rate Range (kHz)	1.6 - 3000
Beam Quality (M ²)	1.6 ± 0.4
Beam Diameter (mm)	7.5 ± 1.5
CW Mode	Yes
Red Alignment	Yes
Laser on time (µs)	1

Electrical

Operating Voltage (VDC)	24 ± 1
Operating Current (A)	< 20

Mechanical & Environmental

Dimensions (W x D x H mm)	400 x 300 x 124
Output Fiber Length (m)	2.0 - 2.5
Output Cable Diameter (mm)	6 - 8
Warm-Up Time	10 sec.
Operating Temperature (C°)	10 - 35
Operating Humidity (% rel.)	10 - 95
Cooling Method	Air Cooled

Pulse Repetition Rate (PRR)

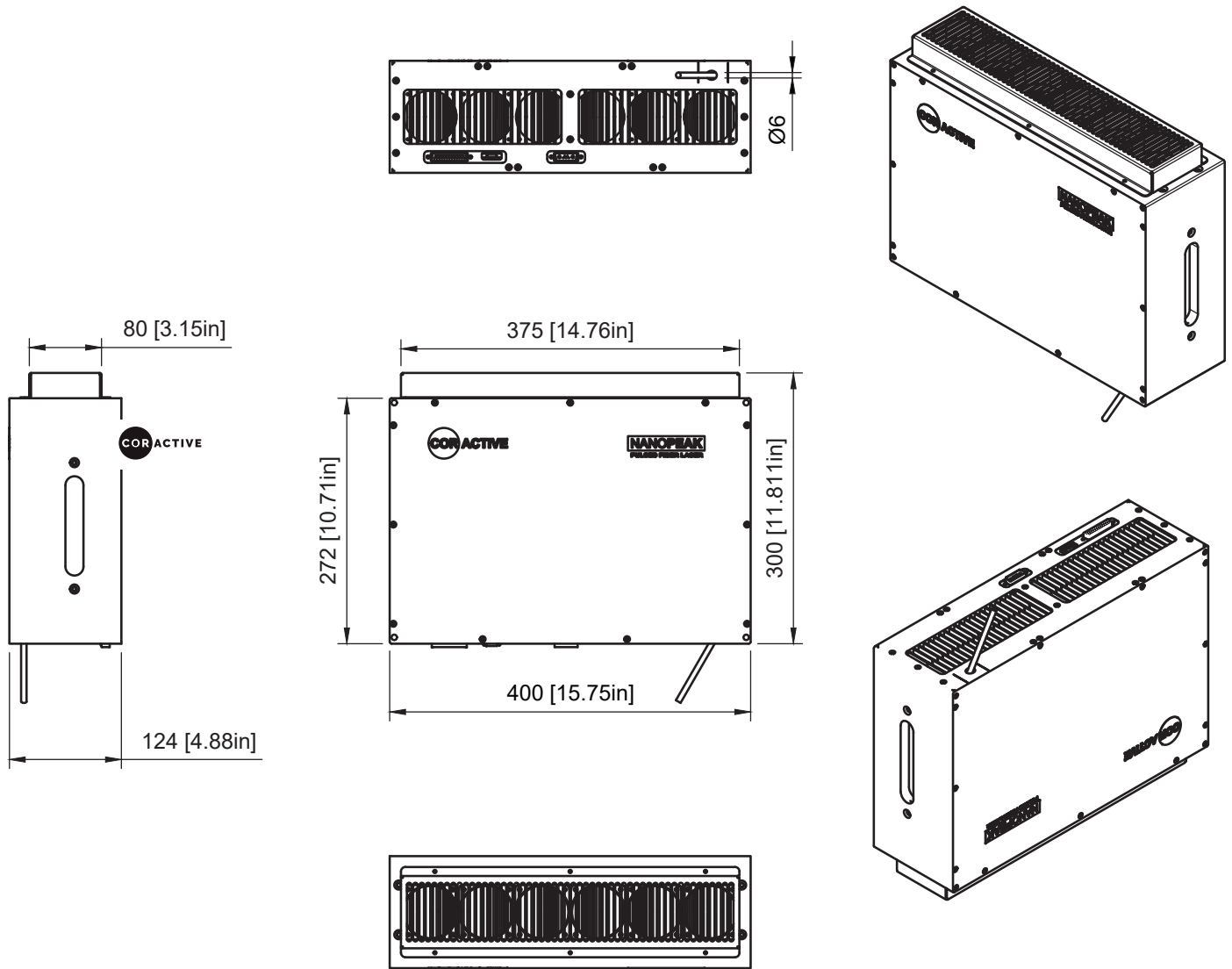
Pulse Width (ns)	Minimum PRR (kHz)	Maximum PRR (kHz)	Central PRR (kHz)
2	1.6	3000	4000
4	1.6	3000	2500
8	1.6	3000	1250
14	1.6	3000	850
20	1.6	2000	700
30	1.6	2000	550
50	1.6	2000	450
60	1.6	2000	375
80	1.6	2000	250
100	1.6	1000	200
150	1.6	500	140
200	1.6	500	100
250	1.6	200	100
350	1.6	200	100
500	1.6	200	100

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Drawing



This product is CE compliant.
All specifications are subject to change without notice. Reference: 100-71-0005