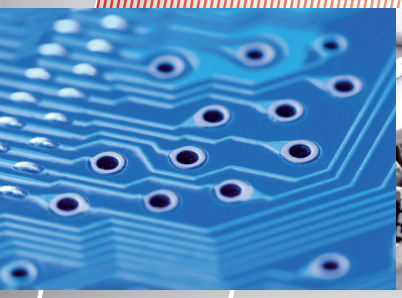
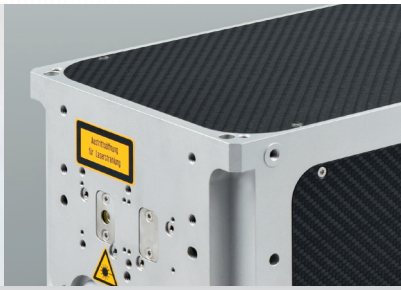
nanio series*

Industrial DPSS Lasers

NANIO 532-18-Y



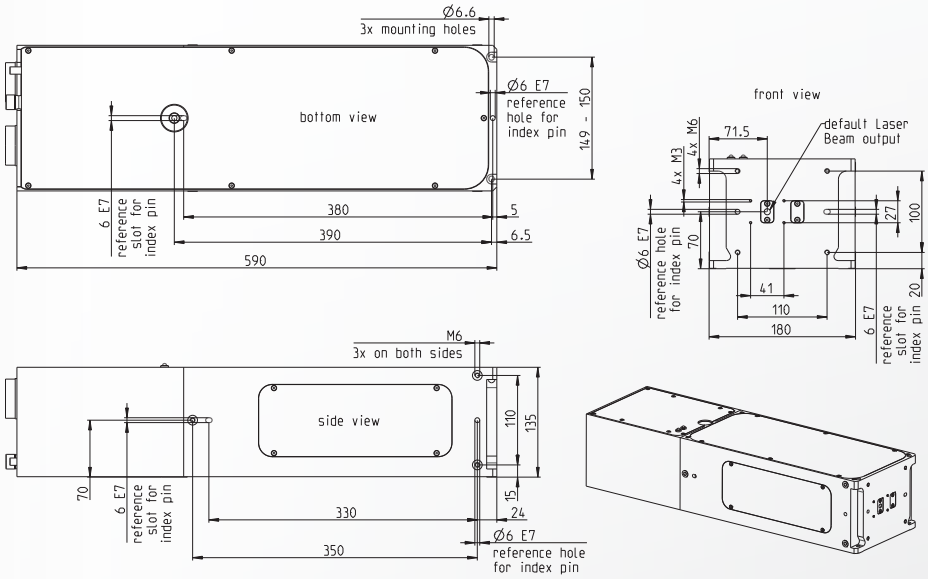



Applications

- Marking
- Micromachining
- Scribing
- Engraving
- Solar Cell Manufacturing
- Semiconductor Manufacturing
- Drilling
- Scientific

Features

- Outstanding performance & reliability
- Modular industrial design
- Easy integration and service
- High average power for high throughput
- High peak power and short pulse widths
- Field proven long life pump diode modules
- Superior pulse-to-pulse stability
- Optimized performance for your application



nanio series*

Industrial DPSS Lasers

NANIO 532-18-Y

Specifications	Laser Head	Laser Medium	Nd:YAG
		Pump Source	Long Life Pump Diode Modules
		Pulse Unit	Acousto-Optical Q-Switch
	Laser Parameters	Wavelength [nm]	532
		Nominal Power [W]	12 @ 5 kHz
		Nominal Power [W]	18 @ 10 kHz
		Repetition Rate [kHz]	Single Shot to 50 kHz
		Polarization	Horizontal, 100:1
	Beam Parameters	Spatial Mode	TEM_{00}
		M^2	< 1.3
		Peak Power [kW]	> 63 @ 5 kHz; > 45 @ 10 kHz
		Pulse Energy [µJ]	2400 @ 5 kHz; 1800 @ 10 kHz
		Pulse Width [ns]	< 38 @ 5 kHz; < 40 @ 10 kHz
		Pulse-to-Pulse Stability [rms]	< 1.5 % @ 10 kHz
		Nominal Beam Diameter at Waist [mm]	0.3
		Nominal Beam Divergence, Full Angle [mrad]	2.9
	Operating Parameters	Warm-up Time	< 15 min
		Electrical Connection	115-230 VAC ± 10 %, 50-60 Hz, Single Phase
		Laser Power Consumption	500 W
		Cooling	Water-to-Air or Water-to-Water
		Ambient Temperature	15-40 °C (59-104 °F), Non Condensing
	Dimensions	Laser Head (L x W x H)	590 x 180 x 135 mm (23.23 x 7.09 x 5.31 in.)
		Power Supply (L x W x H)	500 x 447 x 88.1 mm (19.66 x 17.6 x 3.47 in.) 19" system, 2 RU high
	Weigths	Laser Head	19 kg (41.9 lbs.)
		Power Supply	12 kg (26.5 lbs.)

Available Options

Umbilical length between laser head and power supply 1-20 m. Standard is 3 m.
External beam expander box, beam expanders and scan head adapter flanges.
Customized power supply front design.
Variable attenuator.

Rev. 1.3, 05 / 2011

InnoLas follows a policy of continuous product improvement. All specifications are subject to change without notice.
InnoLas Laser GmbH is DIN EN ISO 9001 certified.

CE

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