

NEW 500/1000 W Water-Cooled Fiber Laser For Additive Manufacturing



Features

- 500 or 1000 W
- Single mode beam
- $\pm 1.5\%$ power stability
- Compact 2RU 19"
- Turn-key laser system
- Aiming beam
- Low cost

OEI's new, water-cooled, fiber laser is geared toward cost-conscious additive manufacturing applications requiring higher power and lower output power variation than what air cooling can deliver. Water cooling the pump diodes ensures a stable power output within $\pm 1.5\%$ to improve consistency when doing long-duration prints of larger components. The compact 2RU 19" rackmount enclosure includes an integrated power supply and electronics to function as a turn-key laser system—just plug in power and add cooling water. Designed to reduce costs while maintaining performance and reliability, each unit is made-to-order in the USA and customizable to suit your additive manufacturing application needs.

Specifications	Unit	PE1000-WCFL
Average Power	W	500, 1000
Wavelength	nm	1080 \pm 10
Power Stability	%	± 1.5
Operating Mode		CW/Modulated
Modulation Frequency	kHz	≤ 5
Beam Shape		Gaussian
Beam Quality	M ²	≤ 1.3
Fiber Core Diameter	μm	14, 20, 50, 100
Fiber Connector		QBH
Cooling Method		Water
Supply Voltage	VAC	100 - 240
Form Factor		2RU 19" rack
Dimensions (W x H x L)	mm	439 x 92 x 292

