

BWC-FL-1085 Series

High Power Fiber Laser Systems



The BWC-FL-1085 Series are compact turn-key diode-pumped fiber laser systems. Depending on the model, they operate around 1085nm providing up to 50 Watts of continuous power. It is a complete system containing the pump laser diode, fiber laser cavity, thermoelectric coolers, control electronics, and power supply. The system operates from standard wall plug line power. It includes features such as multifunctional relay controller for versatile laser operations, a micro-controller, color touch screen LCD, and a remote port for external modulation and control purpose. Optional features include lens assemblies that

can be attached to the end of fiber with an SMA 905 connector. It provides intelligent safety features, ease of operation, and programmable operation settings.

Highlights

- High power available for demanding applications
- Up to 50 W power delivered by flexible fibers
- Easy OEM integration
- Compact and portable
- Quick to set up
- No maintenance & service requirements
- Easy to use
- High power density and low divergence angle

Typical Applications

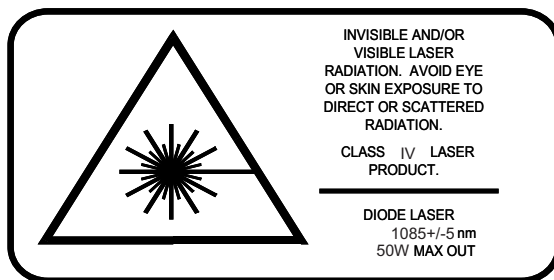
- Contact cutting, ablation
- Coagulation necrosis
- Tissue welding/fusion
- Veterinary Surgery
- Selective soldering/de-soldering
- Heat treating
- Quick curing of epoxy
- Transformation hardening
- Plastic welding
- Marking

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Typical Specifications

Model	BWC-FL-1085-10	BWC-FL-1085-20	BWC-FL-1085-50
Laser Type	Diode Pumped Fiber Laser		
Center Wavelength	1085+/-5nm		
Spectral Line Width	Typically <1nm		
Output Power	0 ~ 10Watt	0 ~ 20Watt	0 ~ 50Watt
Output Fiber	Single Mode		
Output Power Increments	0.25 Watt		
Operating Modes	Continuous Wave (CW) Pulsed (50% duty cycle), 5Hz, 10Hz or 15Hz		
Emission Duration	Continuous Wave Selectable 0 – 120 second		
Audio Warning Signal Level	High, Medium and Low (85 to 70 dB)		
Foot Switch Operation	Selectable: On/Off 0% or 100% Variable 0% to 100%		
Output Calibration	Power and Fiber Transmission		
Cooling	Thermal Electrically Cooled with Forced Air		
Weight	18 lbs		
Dimensions	16.7" x 10" x 6"		
Power Requirement	100 to 240VAC/50-60Hz		
Operation Temperature	-10 °C to 35 °C		
Storage Temperature	-30 °C to 70 °C		



DISCLAIMER:

This product complies with the requirements with Federal Regulations CDRH 21 CFR 1040.10. This laser is intended for scientific and industrial applications only and is not for use as a medical device.



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