

# 500W 808nm QCW Bare Laser Bar

## Main Features:

Wavelength: 808nm  
Output power: 500W  
Operation mode: QCW  
Filling factor: 75%  
High laser power and high efficiency  
Long lifetime, high reliability  
Excellent beam characteristics

## Application:

Industry: direct material processing, heating or lighting, pump sources for fiber and solid-state lasers, printing technology.

Medicine: Esthetics, dermatology, and surgery.

## Data Sheet

Item No: LC808SB500

Item Name: 500w 808nm QCW Unmounted Laser Bar

### Optical

Pulse Wavelength	803nm	808nm	813nm
Output Power		500W	
Working Mode		QCW	
Spectrum Width		4nm	
Number of Emitter		60	
Emitter Width		120um	
Emitter Pitch		160um	
Filling Factor		75%	
Bar Width	9900um	10000um	10100um
Cavity Length	1490um	1500um	1510um
Thickness	105m	125um	145um
Fast Axis Divergence(FWHM)		39deg	
Slow Axis Divergence (FWHM)		12deg	
Polarization Mode		TE	
Slope Efficiency	1.05W/A	1.15W/A	

### Electrical

Operating Current Iop		460A	490A
Threshold Current Ith		40A	
Operating Voltage Vop		2.1V	2.3V
Conversion Efficiency	46%	51%	

### Thermal

Operating Temperature	15°C	25°C	35°C
Wavelength Temperature Coefficient		0.28°C	

## PIV Chart:

### QCW500W LIV Curve

