

# CDL/F-500W~4000W Fiber Output Direct Diode Laser

## PRODUCT DESCRIPTION

CINA LASER CDL / F-4000W series fiber output direct diode laser, with higher electro-optic conversion efficiency, and more competitive price. Laser through fiber flexible output, more suitable for portable, or intelligent equipment integrated applications, suitable for stainless steel, carbon steel, aluminum, copper and other metal materials cladding, welding, drilling. It is widely used in the fields of sheet metal welding, metal processing, home appliance manufacturing and automobile manufacturing.

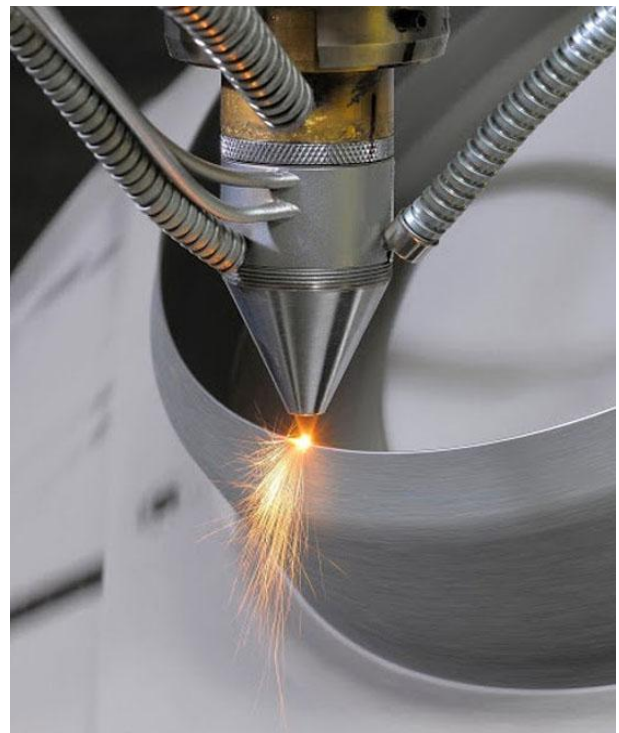


## PRODUCT FEATURE

- ▶ High wall plug efficiency, greatly reduce power consumption
- ▶ Short wavelength, metal has a higher absorption rate for short-wavelength lasers
- ▶ Can accommodate welding, cladding and surface heat treatment at the same time
- ▶ High lifetime, high safety and reliability
- ▶ Can be personalized customization
- ▶ Excellent after-sales service system
- ▶ Excellent cost performance

## MAIN APPLICATION

- ▶ Laser welding
- ▶ Laser cladding
- ▶ Laser brazing
- ▶ Laser melting deposition



## TECHNICAL INDEX

Performance		Min.	Typ.	Max.	Remarks	
Optical Feature	Central wavelength	(nm)	965	975	985	975nm
	Spectral bandwidth (-3dB)	(nm)		3	5	
	Output optical power	(W)	4000			CDL/F-4000
	Power ADJ. range	(%)	10		100	
	Output power stability	(%)		1	1.5	100% continuous > 1h
				2	3	100% continuous > 24h
	Beam quality BPP	(mm x mrad)	40		45	3000W~4000W
	Modulation frequency	(KHz)			20	100% output
Red light power	(mW)	0.3		1.0		
Output Feature	Output connector			QBH	Customizable	
	Output fiber core diameter	(μm)		400	500W~2500W	
				600	3000W~4000W	
	Output fiber length	(m)	5	10	15	Customizable
	Output fiber bending radius	(mm)	200			
	Work mode		Continuous/Modulation			CW/Modulate
State of polarization		Random			Random	
Electrical Cooling Feature	Communication interface		RS232 / AD / Super terminal			
	Remote telecommunication		APP			Customizable
	Power supply	(V)	200	220	240	
	Power consumption	(KW)			8.8	4000W
	Cooling mode		Water cooling			Circumscribed
	Temperature of cooling water	(°C)	21		25	
General Feature	Working ambient temperature	(°C)	10		40	
	Working ambient humidity	(%)	10		85	
	Storage temperature	(°C)	-10		60	
	Weight	(kg)		63		
	Structure		19' Rack			
	Size (W) × (L) × (H)	(mm)	640 × 1000 × 700			4000W