

CDL/F 500W~4000W

Fiber Output Direct Diode Laser

PRODUCT DESCRIPTION

GT CDL / F- 500W~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.

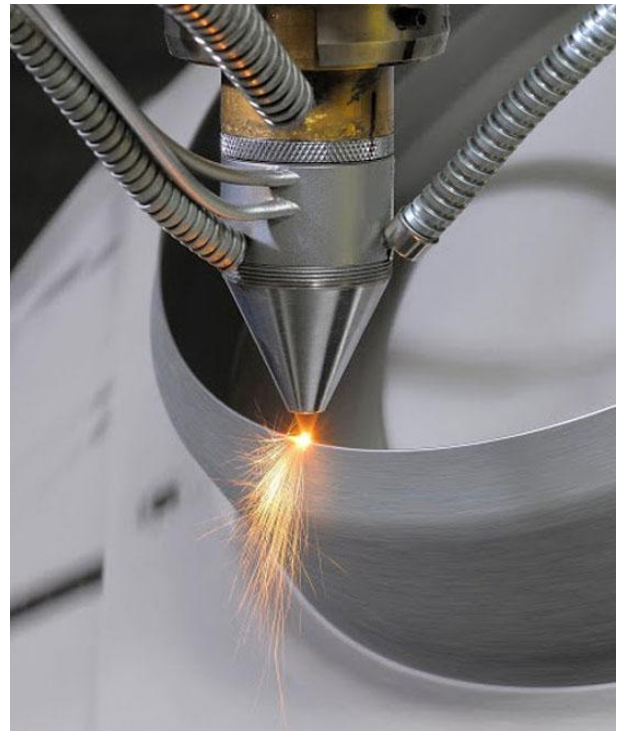
PRODUCT FEATURE

- ▶ High electro-optic conversion efficiency>45%, greatly reduce production costs
- ▶ 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

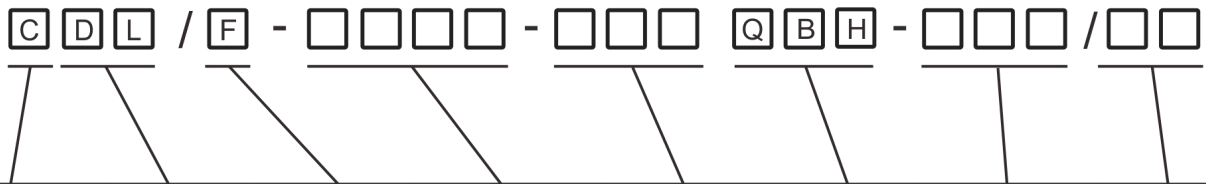
- ▶ Laser welding
- ▶ Laser cladding
- ▶ Laser brazing
- ▶ Laser melting deposition



TECHNICAL INDEX

Performance		Min.	Typ.	Max.	Remarks		
Optical Feature	Central wavelength	(nm)	965	975	985	975nm	
			910	920	930	920nm	
	Spectral bandwidth (-3dB)	(nm)		3	5		
	Output optical power	(W)		500			CDL/F-500
				1000			CDL/F-1000
				1500			CDL/F-1500
				2000			CDL/F-2000
				2500			CDL/F-2500
				3000			CDL/F-3000
				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)		20		28	500W~1500W
				38		40	1500W~2500W
			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)			1.1	500W	
					2.2	1000W	
					3.3	1500W	
					4.4	2000W	
					5.5	2500W	
					6.6	3000W	
				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)		482.6 × 451 × 104		500W~2000W	
			482.6 × 596 × 111		2500W~3000W		
			482.6 × 666 × 111		4000W		

ORDER INFORMATION



C	CW	DL	Diode laser	Output Mode		Output Power		Center Wavelength nm		Output Connector	Output Fiber Core Diameter		Cable Length (m)	
				F	Fiber Output	500	500W	975	975 ± 10		300	300µm	05	5m
Q	QCW	YL	YD Fiber Laser	F	Fiber Output	1000	1000W	920	920 ± 10	QBH	400	400µm	10	10m
						600	600W				600	600µm	15	15m
P	Pulse	EL	ED Fiber Laser	B	Combined Output	1500	1500W							
						2000	2000W							
						2500	2500W							
						3000	3000W							
						4000	4000W							