

30W CW Ytterbium Fiber Laser

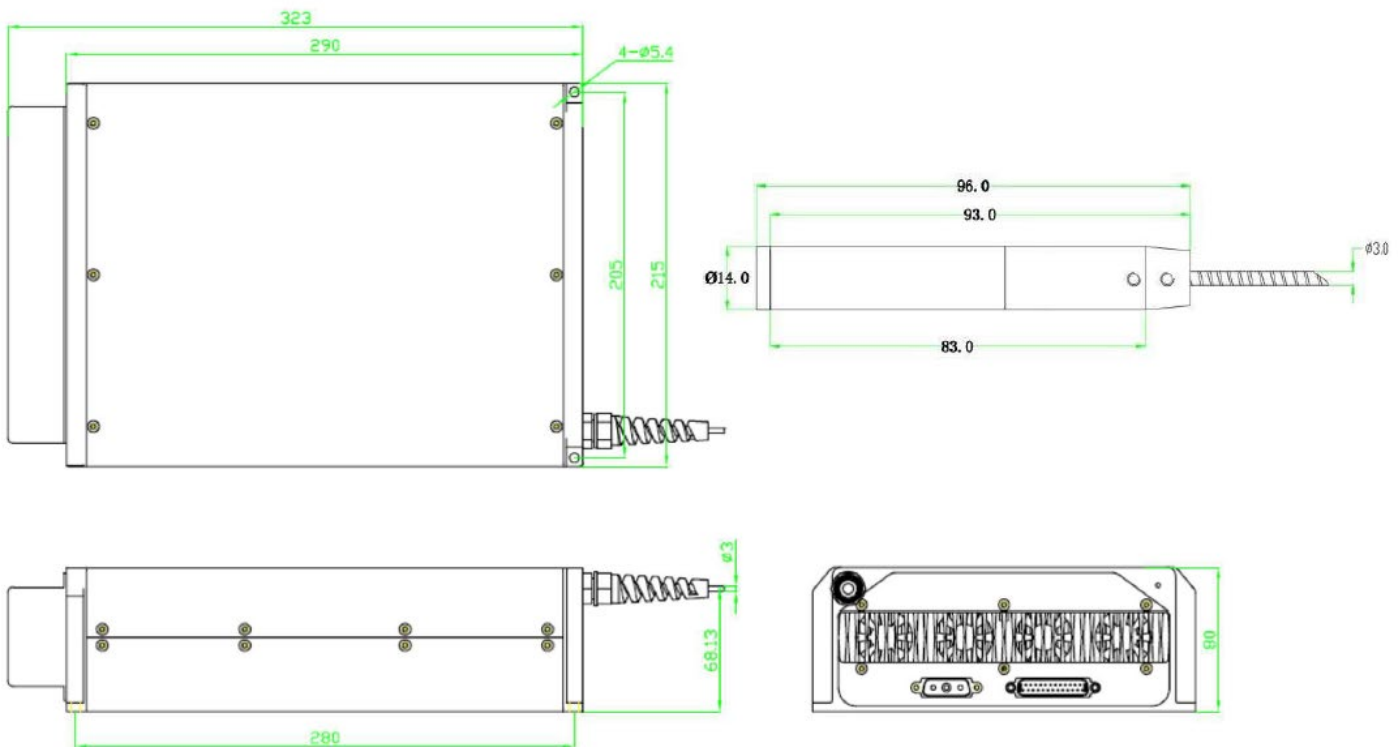
Description

OLFL-CW-R is a CW Fiber Laser series delivering up to 30W of power through a single mode output fiber. All-fiber design guarantees the robustness of the laser, eliminating any alignment of free-space optical parts and risk of mis-alignment over time and use. Excellent beam quality and power stability make OLFL-CW-R series the ideal solution for use in various laboratorial and scientific applications.

OLFL-CW-R Fiber Laser series provide an effective management interface for user to control key operating parameters. The Fiber laser presents RS-232 interface flexibly, ensuring the connectivity with customer's control system. The modulation is controlled through TTL signal.

Mechanical Drawing

Dimensions: 323x215x80mm



Unit:mm

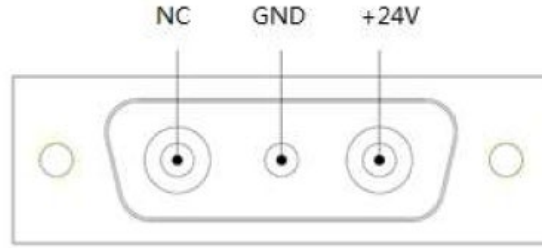
Specifications

Parameter	Unit	Value
Mode Of Operation	/	CW
Wavelength	nm	1064±1 (Room Temperature)
Linewidth (1/e ²)	nm	≤5 (Adjustable)
Output Power	W	Typ. 30
Output Power Adjustment	%	0 to 100
Rising Time	us	≤100 (10%-90%)
Off Time	us	≤100 (90%-10%)
Modulation Frequency	KHz	≤5
Polarization	/	Random
Output Powe Stability (Short Term)	%	≤2 (15mins)
Output Powe Stability (Long Term)	%	≤5 (8hrs)
Beam Quality(M ²)	/	<1.3 (Typ. 1.1)
Beam Diameter	mm	3.5 to 5.5
Output Fiber		10/125 0.08NA with 3mm Armored Cable

Mechanical & Environmental Specifications

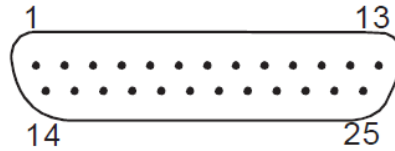
Parameter	Unit	Value
Dimensions (WxDxH)	mm	323x215x80
Weight	kg	7
Cooling	/	Air
OD of the Armored Cable	mm	Φ3
Operating Temperature	°C	-5 to +40
Storage Temperature	°C	-20 to +70
Humidity	%	10 to 90

Electrical Specifications



Parameter	Unit	Value
Electrical Requirement	VDC	24 (24±1V)
Maximum Power Consumption	W	150

Definition of the Electrical Connection(DB 25 Male) Pin Out



Pin	Description
1,2,	GND
3,6,7,10-13,25	NC
4	RS232 TxD (EIA RS232C level)
5	RS232 RxD (EIA RS232C level)
8	8 Output Power Adjust (0~5VDC)
9	Control Signal GND
14	System Alarm, Output, TTL Level, High Level Alarm
15	Red Laser Pilot, High Level On (Optional)
16	Reserved Input1, TTL level
17	Laser On/Off Control, TTL Level, High Level On
18	Reserved Input2, TTL Level
19	Current Alarm, Output, TTL Level, High Level Alarm
20	Temperature Alarm, Output, TTL Level, High Level Alarm
21	Reserved Output1, TTL Level
22	Simmer Control, TTL Level, High Level Active
23,24	Interlock. When these two pins are connected, pump power supply disable

Order Information

Output Power (AA)	
30	30W
...	...

Armored Cable Length (B)	
1	1m
2	2m
...	...

Output Termination (C)	
0	Bare Fiber
1	Fiber End Cap
2	Collimator
3	SMA905

Bare Fiber Length (D)	
2	2m
...	...

OLFL-CW-R	-	A	A	-	B	-	C	-	D
OLFL-CW-R	-			-		-		-	