

Features

- 2~10x higher absorption by transparent plastic than that of the traditional 8xx and 9xxnm diode lasers
- No additive required for transparent plastic welding
- Up to 60W power delivered with a 400 μ m fiber
- System over heating protection
- Switchable between internal and external control
- Eye safe wavelength, user friendly

**Applications**

- Laser welding of transparent plastic parts for medical use
- Laser welding of transparent plastic parts for cell phones
- Laser welding of transparent plastic parts for appliances
- Laser welding of transparent plastic parts for automotive

Electro-optical	Symbol	Unit	Min	Typical	Max
Output power	P _o	W	22/30/40/60		
Center wavelength	λ_c	nm	1690	1710	1730
Wavelength temp coefficient	$\Delta\lambda/\Delta T$	nm/° C		0.75	
Spectral width	FWHM	nm			20
Input voltage	V _{IN} (AC)	V		110~220	
Input current	I _{IN} (AC)	A			14/7
Fiber core/cladding		um/um		400/440	
Fiber numerical aperture	NA		0.20	0.22	0.24
Fiber termination			SMA905		
Fiber length		m		5	
Fiber bending radius		mm	60		
Red aiming beam					
Output power	P _o	mW	0.5		
Operating voltage		V	2.6		5
Laser wavelength	λ	nm		635	
Beam shape			Round		
Outline dimensions					
Length		mm		489	
Width		mm		483	
Height		mm		133	
Environmental					
Working temperature	T _{op}	°C	22	26	30
Environment humidity	H _{op}		Non condensing		
Storage temperature	T _{STG}	°C	-20		60

Notes:

- 1) 4 models available, output power is 22W, 30W, 40W and 60W , respectively
- 2) The 40W and 60W models require an external chiller with circulating water for cooling the laser modules