

## TCS-120-BW-FC5D

### 1. Features and Applications



Han's TianCheng Semiconductor Co., Ltd., (HTC) founded in November 2011 in Beijing Development Area, is a subsidiary company of Han's Laser. HTC has advanced research, technological infrastructure and experience in the development and production of diode lasers with self-developed technology, especially in fiber coupled laser modules. HTC provides high power semiconductor laser products which are widely used in the fields such as material processing, diode-pumped solid-state pumping, fiber laser pumping, laser display, medical application and scientific research.

HTC dedicates to the development of high brightness fiber coupled diode laser modules and system with output power up to kilowatts, and the wavelength cover range from UV to near infrared. We can also provide special wavelength and multi-wavelength products, and other customizing products and OEM services.

#### Features:

- ◆ Output Power 120W
- ◆ Fiber 200 $\mu$ m/0.22NA
- ◆ Wavelength 450 $\pm$ 10nm
- ◆ Fiber Connector D80

#### Applications:

- ◆ Laser Welding
- ◆ Scientific Research

## 2. Typical Device Performance (25°C)

	Unit	Typical Value
<b>Optical</b>		
CW Output Power	W	120
Center Wavelength	nm	450±10
<b>Fiber</b>		
Fiber Core Diameter	μm	200
Fiber Length*	m	5
Fiber Connector	-	D80
<b>Electrical Parameter</b>		
Operating Voltage	V	220-240 Single Phase
Frequency	Hz	50/60
Power Consumption	W	1000
<b>Power Supply &amp; Control</b>		
Control Mode		RS232/AD/ Manually
Output Power Tunability		10%-100%
Protection		Over Current/Voltage/Temperature
<b>Water Cooling</b>		
Cooling Capacity	W	500
Minimum Flow Rate	L/min	2.0
Water Pressure	MPa	0.3
Water Quality		RO/DI/DH <sub>2</sub> O

## 3. Dimensions (mm)

