

Air-cooled CW Fiber Laser

HFC SERIES

HFC500 & HFC500S



The HWQ500 & HWQ500S Fiber Laser are the brand-new Continuous Fiber Laser independently developed by Han's Laser and offers superior beam quality, high efficiency, and a compact size.

► Application

- Auto Parts
- Lithium Battery
- Medical Equipment
- Consumer Electronics
- Mobile Communication

► Features

- Easy installation and integration
- Continuous/pulse mode, high peak power
- Zero consumables, maintenance-free for life
- Small weld spots, minimal heat-affected zone and deformation
- High photoelectric efficiency, Low power consumption
- Applications in consumer electronics, battery welding, and cutting

Technical Parameters

HFC500

HFC500S

Optical Parameters

Wavelength	1080 ± 10 nm	
Max. Average Power	CW Mode: 500 W	
Pulse Duration	0.05 ~ 50 ms	
Beam Quality	< 6	≤ 1.3
Fiber Core Diameter	50/100 µm	14/25 µm
Numerical Aperture	0.22	0.07
Max. Pulse Energy	5 J	
Max. Peak Power	500 W	
Red Guide Laser Power	> 0.1 mW	
Power Stability	≤ 3 %	

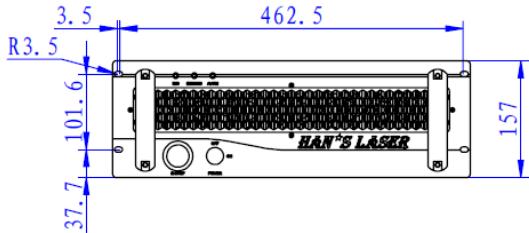
General Parameters

Supply Voltage	AC 220 V ± 10 % @ 50 Hz
Operation Temperature	10 ~ 35 °C
Storage Temperature	- 40 ~ + 75 °C
Relative Humidity	10 ~ 95 %, non-condensing
Cooling	Forced Air
House Keeping Function	Waveform Editing / Operation Parameters / Working Mode / Diagnosis

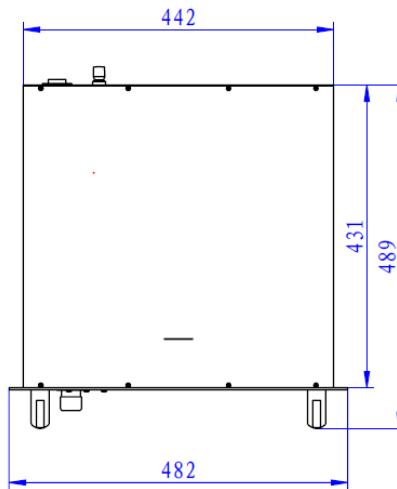
Physical Properties

Laser Dimensions	489 mm × 442 mm × 157 mm (including handles) (L × W × H)
Laser Weight	< 30 kg

► All specifications are typical data and subject to change without notice due to product improvements.

Laser Dimensions (mm)

Front View



Left View