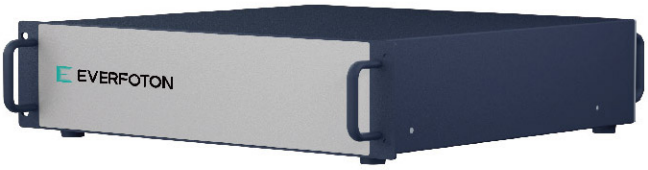
CW Fiber Laser for Hand-held Welding

Everfoton's CW Water-cooled Fiber Laser for Hand-held Welding features high electro-optical efficiency, less spatter in the welding process, compact structure. The series supports Bluetooth monitoring for easy sysetm integration.



Applications

- Laser welding

Characteristics

- Catering to IP66 industrial environment
- Convenient control interface, easy integration
- High electro-optical efficiency and maintenance-free
- Bluetooth monitoring

SPECIFICATIONS

Optical Characteristics

Model	FFRC-15H-E	FFRC-20H-E
Operating Mode	CW / Modulated	
Polarization	Random	
Power Range (%)	10 - 100	
Beam Quality (M^2)	< 1.5	< 2
Output Power Instability at 25°C (%)	< ±1.5 (2 Hours)	
Central Wavelength (nm)	1080 ± 5	
Spectrum Width FWHM (nm)	< 6	
Modulation Frequency (kHz)	5	
Red Laser Power (μW)	> 200	

Output Cable Parameters

Output Mode	QBH	
Output Fiber Core Diameter (μm)	20	30
Cable Length (m)	10	
Bending Radius of Cable (mm)	200	

Electrical Characteristics

Operating Voltage (VAC)	200 - 240V, 1PH 50 / 60Hz	
Rated Power Consumption (kW)	4	6
Control Mode	AD	

Other Parameters

Operating Temperature (°C)	10 - 40
Relative Humidity (%)	10 - 80
Cooling Method	Water Cooled
Water-cooling Temperature (°C)	25 ± 1
Water-cooling Flow (L/min)	> 20 (Laser), 1.5 - 2.5 (QBH)
Water-cooling Pressure (Bar)	3 - 5
Joint Diameter (mm)	12
Dimensions (W*D*H) (mm)	482 x 450 x 105 (including handle)
Weight (kg)	23 ± 3 / 28 ± 3