

	Specifications	Revision:	V3.7
	QCW fiber laser	Date:	202503
	Model: YFQCW-450-MM5-050HA	Page:	1/4

1. Optical characteristics

N	Characteristics		Parameter value	Unit
1	Average power	CW	450	W
		Pulsed	450	W
2	Peak power		4500	W
3	Single pulse energy		45	J
4	Central wavelength		1080 ± 2	nm
5	Spectral width @3dB		< 5	nm
6	Core diameter		50	μm
7	Power adjustment range		10 - 100	%
8	Maximum modulation frequency		5	kHz
9	Pulse width		0.02-50	ms
10	Laser switching ON/OFF time		< 25	μs
11	Output power instability		< 3	%
12	Beam quality M ²		< 2	/
13	Polarization direction		Random	/
14	Indicator red light		Yes	/



	Specifications	Revision:	V3.7
	QCW fiber laser	Date:	202503
	Model: YFQCW-450-MM5-050HA	Page:	2/4

15	QBH divergence angle (full angle)	< 250	mrad
16	Delivery cable length	5	m

2. Electrical characteristics

N	Characteristics	Parameter value	Unit
1	Power supply voltage	220	V
2	Working current	< 16	A
3	Power consumption	< 2800	W
4	Recommended power supply	> 3000	W

3. Environmental requirements

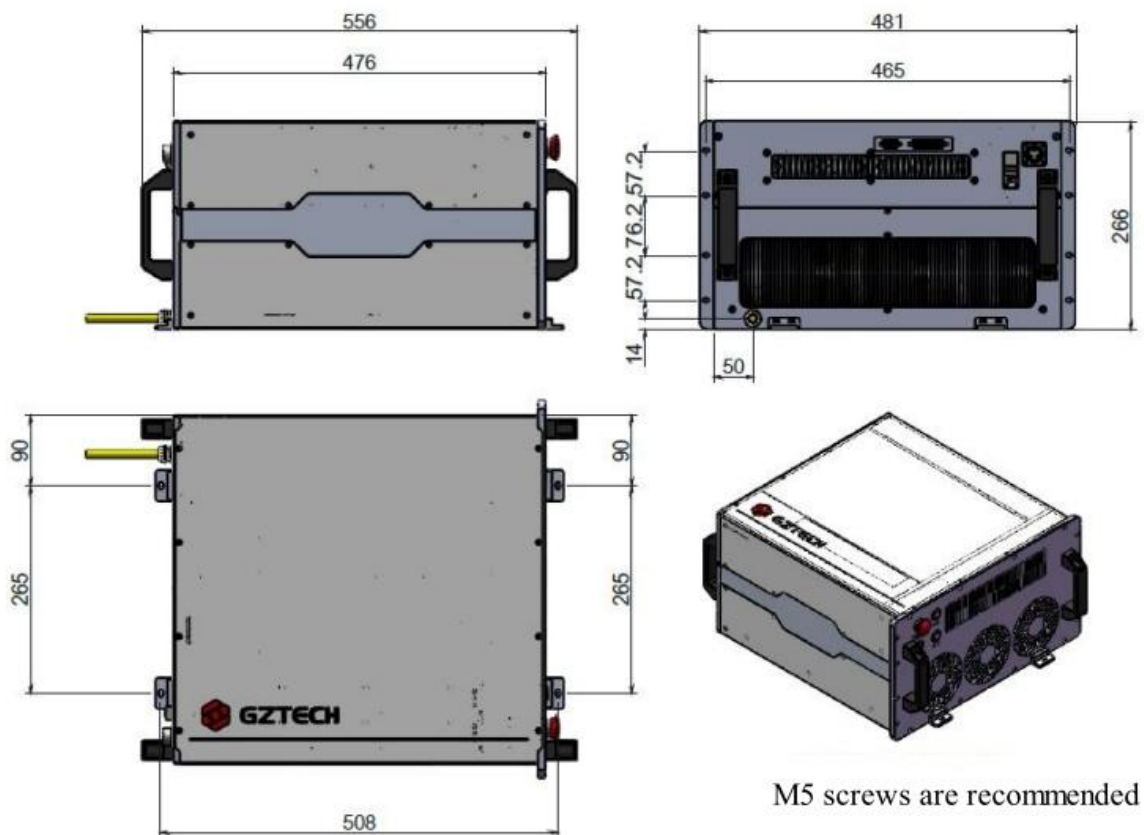
N	Characteristics	Parameter value	Unit
1	Operating temperature	0 - 40	°C
2	Storage temperature	0 - 60	°C
3	Cooling method	Air cooling	/



	Specifications	Revision:	V3.7
	QCW fiber laser	Date:	202503
	Model: YFQCW-450-MM5-050HA	Page:	3/4

4. Structural characteristics

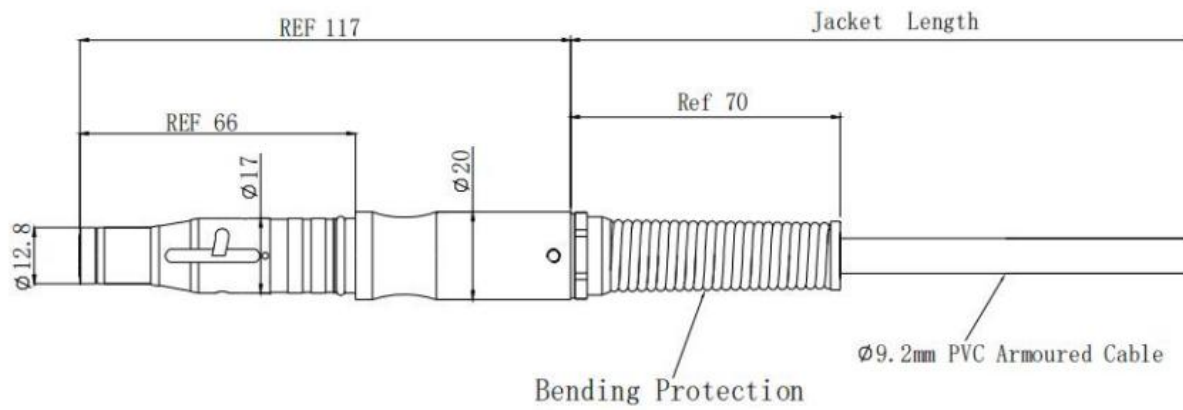
N	Characteristics	Parameter value	Unit
1	Laser dimension	481*508*266 (without handle)	mm ³
2	Net weight	70.5	kg



Laser dimension



	Specifications	Revision:	V3.7
	QCW fiber laser	Date:	202503
	Model: YFQCW-450-MM5-050HA	Page:	4/4



QBH dimension

