Mopa Fiber Lasers

CL 100W/200W/300W

JPT CL series laser make use of master oscillator power amplifier (MOPA) configuration,and show excellent laser performance as well as high level of temporal pulse shaping controllability. As compared to the Q-switching technology, the pulse repetition frequency (PRF) and pulse width can be controlled independently in MOPA configuration, through adjusting different combination of the above parameters, the peak power of laser can be well maintained. And enable JPT laser suitable for more material processing which Q-switch limited. CL series laser designed with ultra-light output connector, and still be anti-high reflection, definitely be the best option for handheld or robot cleaning system.

Application Advantages

- Laser paint stripping
- Metal surface processing, Peeling coating
- Laser derusting
- Pre-welding treatment
- Sheet metal welding
- Hand-held marking

Characteristics Of CL 100W/200W/300W Fiber Laser

	Unit	Parameter		
Product Model		YDFLP-CL-100-1-A	YDFLP-CL-200-5-A	YDFLP-CL-300-13-A
M^2		<2	<4	<14
Armored Cable Length	m	5		
Nominal Average Output Power	W	>100	>200	>300
Maximum Pulse Energy	mJ	1.5	5	13
Pulse Repetition Rate Range	kHz	1 ~ 4000		1 ~ 1000
Pulse Duration	ns	2 ~ 500		80 ~ 500
Output Power Stability	%	<5		
Cooling Method		Air Cooled		
Supply DC Voltage (VDC)	V	48		24
Maximum Power Consumption	W	<400	<800	<1500
Environmental Supply Current	A	>8	>16	>63
Central Emission Wavelength	nm	1064		
Emission Bandwidth@3dB		<15		
Polarization Orientation		Random		
Anti-high Reflection		Yes		
Output Beam Diameter	mm	4.0±0.5	6.0±0.5	6.5±1.0
Output Power Tuning Range	%	0 ~ 100		
Operation Temperature	℃	0 ~ 40		
Storage Temperature		-10 ~ 60		
N.W	KG	13.2	30	65
Size(L×W×H)	mm	338*280*112	523*430*133	558*378.5*425