Mopa Fiber Lasers

M7 20W/30W

JPT M7 series high power pulsed fiber lasers 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. The higher output power makes its advantages especially in high speed marking applications.

Application Advantages

- Sheet metal cutting, Welding
- Scribing, Drilling
- Laser derusting
- Surface treatment
- Metal surface processing, Peeling coating
- Marking on fly

Characteristics Of M7 20W/30W Fiber Laser

	Unit	Parameter	
Product Model		YDFLP-C-20-M7-S-R	YDFLP-E-30-M7-S-R
M^2		<1.4	
Armored Cable Length	m	2	
Nominal Average Output Power	W	>20	>30
Maximum Pulse Energy	mJ	0.8	
Pulse Repetition Rate Range	kHz	1 ~ 4000	
Pulse Duration	ns	2 ~ 350	
Output Power Stability	%	<5	
Cooling Method		Air Cooled	
Supply DC Voltage (VDC)	V	24	
Maximum Power Consumption	W	<110	<150
Environmental Supply Current	A	>5	>7
Central Emission Wavelength	nm	1064	
Emission Bandwidth@3dB		<15	
Polarization Orientation		Random	
Anti-high Reflection		Yes	
Output Beam Diameter	mm	7±0.5	
Output Power Tuning Range	%	0 ~ 100	
Operation Temperature	℃	0 ~ 40	
Storage Temperature		-10 ~ 60	
N.W	KG	3.75	4.25
Size(L×W×H)	mm	245 × 200 × 65	