LASER

PYL/N-60W/100W-M/M-QCS/05-A/R Mopa Fiber Laser Source

〉PRODUCT FEATURE AND SPECIFICATIONS:

- Pulse Energy up to 2 mJ
- Average Power up to 500 W
- Pulse Repetition Rates 1-4000 kHz
- Over 25% Wall-plug Efficiency
- Instant Modulation Response
- Excellent Pointing Stability
- Maintenance-free Operation
- Full Flexibility in Operating Parameters

- High Speed Marking
- Trimming
- Coating Removal
- Scribing
- Surface Treatment
- Texturing
- High Speed Cutting
- High Speed Engraving

CINA Laser PYL/N nanosecond ytterbium fiber lasers provide average output power up to 500 W and adjustable pulse waveforms in the range of 2-500 ns. The lasers are triggered externally in a wide range of pulse repetition rates 1-4000 kHz, offers pulse energy of up to 2 mJ and the ability to scale average power independent of the energy.

PYL/N lasers are small air-cooled maintenance-free modules designed for OEM applications and 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. So suitable for more material processing which Q-switch limited. The higher output power makes its advantages especially in high speed marking applications.

	Unit	Parameter	
Product Model		PYL/N-60W-M/M-QCS/05-A/R	PYL/N-100W-M/M-QCS/05-A/R
M2		<1.5	<1.4
Delivery Cable Length	m	3	
Nominal Average Output Power	W	>60	>100
Maximum Pulse Energy	mJ	2	
Pulse Repetition Rate Range	kHz	1 ~ 4000	
Pulse Duration	ns	2~500	
Output Power Stability	%	<5	
Cooling Method		Air Cooled	
Supply DC Voltage (VDC)	V	24	48
Maximum Power Consumption	W	<300	<400
Environmental Supply Current	A	>13	>8
Central Emission Wavelength	nm	1064	
Emission Bandwidth@3dB	nm	<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	8.2	13.2
Size(L×W×H)	mm	323 × 277 × 110	

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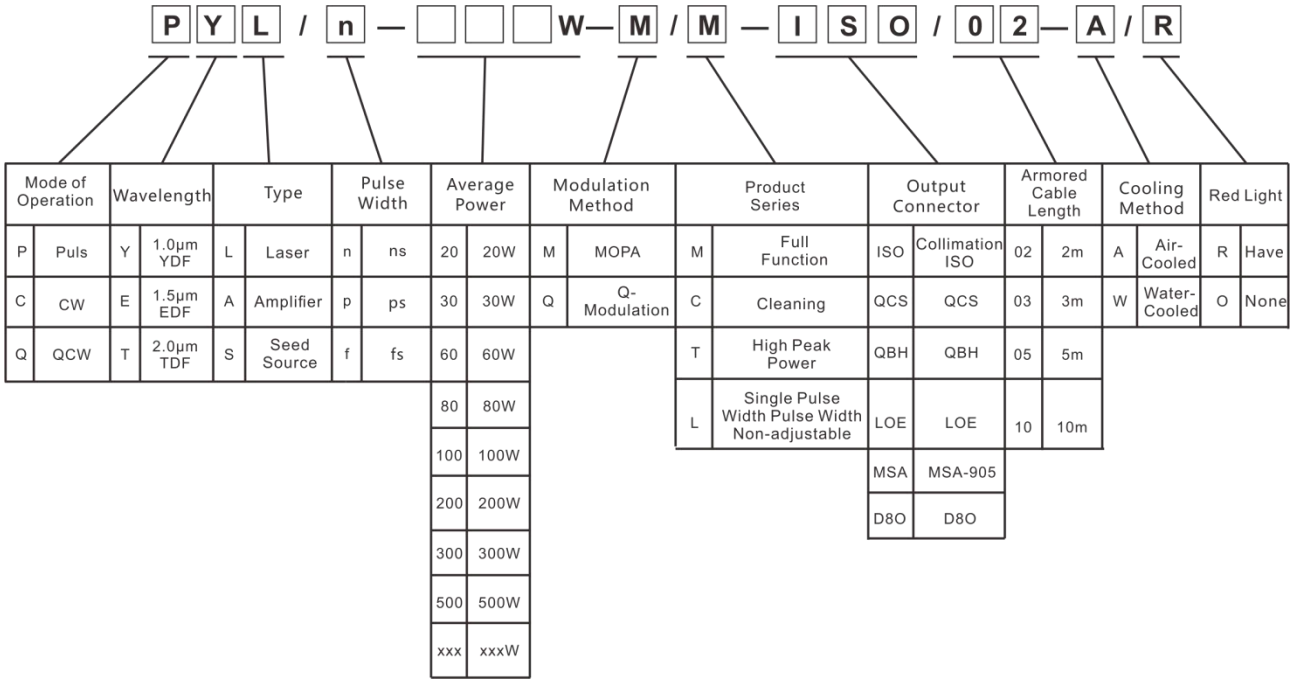
ORDER INFORMATION



Mode of Operation		Wavelength		Type		Pulse Width		Average Power		Modulation Method		Product Series		Output Connector		Armored Cable Length		Cooling Method		Red Light	
P	Puls	Y	1.0μm YDF	L	Laser	n	ns	20	20W	M	MOPA	M	Full Function	ISO	Collimation ISO	02	2m	A	Air-Cooled	R	Have
C	CW	E	1.5μm EDF	A	Amplifier	p	ps	30	30W	Q	Q-Modulation	C	Cleaning	QCS	QCS	03	3m	W	Water-Cooled	O	None
Q	QCW	T	2.0μm TDF	S	Seed Source	f	fs	60	60W			T	High Peak Power	QBH	QBH	05	5m				
								80	80W			L	Single Pulse Width Pulse Width Non-adjustable	LOE	LOE	10	10m				
								100	100W					MSA	MSA-905						
								200	200W					D8O	D8O						
								300	300W												
								500	500W												
								xxx	xxxW												

DANGER - INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT