



CO₂ LASER TUBES



FEATURES:

- Coaxial glass-metal conduction cooling
- Hard sealed ZnSe mirrors
- High efficiency high voltage DC excited
- Sealed-off and refillable
- Stable free-space resonator
- Super-pulse capability
- Optional rear mirror monitoring output
- Optional collimated output coupler
- Operating lifetime >8000 hours
- Storage lifetime >10 years

SPECIFICATIONS:

Model Version	CTM 300 various available	CTSM 500 various available	CTS 500 various available	CTS 1000 various available	CTS 1100 various available	CTS 1200 various available	CTS 1300 various available
Output power @ max recommended operating current / voltage	>14 W 12mA 5.8KV	>28 W 18mA 11.2KV	>45 W 25mA 9.2KV	>70 W 25mA 13.5KV	>80 W 25mA 14.6KV	>100 W 25mA 17.8KV	>120 W 25mA 18.5KV
Output power after 8000 operating hours or one year for CW or quasi-CW use	>8W	>14W	>22W	>35W	>40W	>50W	>60W
Wavelength	10.57-10.63 μm	10.57-10.63 μm	10.57-10.63 μm	10.57-10.63 μm	10.57-10.63 μm	10.57-10.63 μm	10.57-10.63 μm
Transverse mode	TEM00-01*-10 M ² <2.2	TEM00 M ² <1.2	TEM00 - 01* M ² <1.9	TEM00 - 01* M ² <1.9	TEM00 - 01* M ² <1.9	TEM00 - 01* M ² <1.9	TEM00 - 01* M ² <1.9
Beam diameter (D4 sigma) at 300mm from OC	4 - 6.5mm	3.9 - 4.2mm	4.2 - 6.5mm	4.2 - 6.5mm	4.2 - 6.5mm	4.2 - 6.5mm	4.2 - 6.5mm
Beam divergence	3.5mRad	3mRad	3mRad	3mRad	3mRad	3mRad	3mRad
Polarization	random	random	random	random	random	random	random
Maximum operating current	18mA	24mA	30mA	30mA	30mA	30mA	35mA
Cooling (T-10÷30°C)	Air Forced by fans	Water 1 litre/min	Water 1 litre/min	Water 1.5 litre/min	Water 1.5 lit/min	Water 2 litre/min	Water 2 litre/min
Start voltage	<15KV	<26KV	<26KV	<32KV	< 35 KV	<38KV	<40KV
Power stability after 5 minutes of warm-up	+/-3%	+/-5%	+/-5%	+/-5%	+/- 5%	+/-5%	+/-5%
Weight	650g	1800g	1800g	2400g	2700 g	3000g	3300g
Dimensions	Ø 52 x 520mm	Ø 65 x 860mm	Ø 65 x 860mm	Ø 65 x 1170mm	Ø 65 x 1260mm	Ø 65 x 1490mm	Ø 65 x 1595mm
Operating position	any	any	any	any	any	any	any
Power supply	SPS300P	SPS501C	SPS501C	SPS501D	SPS 501D	SPS501E	SPS501F

All models are warranted for 12 months from date of shipment
 All details and specifications subject to change without notice
 More models and versions on demand

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