Quante

Q-smart 100

Compact Q-switched Nd:YAG laser

- External harmonic modules enable flexibility
- Easy wavelength change
- Compact laser head design
- Sealed head design for operation in various environments



Power



¹ Without optional mounting feet

²With coolant added

Q-smart

97 [3.8] x 81 [3.2] x 93 [3.7] Harmonic module dimensions in mm [inches] Harmonic module weight in kg [lbs] 0.8 [1.7] Variable attenuator dimensions in mm [inches] 126 [5] x 81 [3.2] x 93 [3.7] Variable attenuator weight in kg [lbs] 0.9 [2.0]

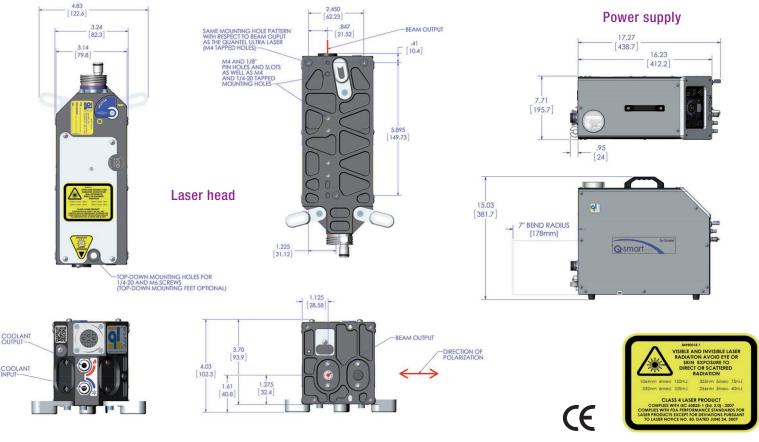


Q-smart 100 Specifications

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Model	QSM100-20-G
REPETITION RATE [Hz]	20
PULSE ENERGY [mJ] (1)	
1064 nm	100
532 nm	60 (2)
355 nm	30 (3)
266 nm	20 (4)
PULSE WIDTH [ns]	
1064 nm	< 10
532 nm	< 10
355 nm	< 10
266 nm	< 10
ENERGY STABILITY [% rms]	
1064 nm	< 1
532 nm	< 1.5
355 nm	< 2
266 nm	< 4
BEAM DIAMETER [mm]	
1064 nm	5
532 nm	5
355 nm	5
266 nm	5
BEAM DIVERGENCE [mrad]	
1064 nm	< 1

POINTING STABILITY [µrad]	< 100	
TRANSVERSE MODE	Single	
RESONATOR CONFIGURATION	GRM	
POLARIZATION DIRECTION		
1064 nm	н	
532 nm	Н	
355 nm	V	
266 nm	V	
SPECTRAL PURITY		
532 nm	> 98 %	
355 nm	> 95 %	
266 nm	> 95 %	
POWER	100 - 240 VAC, 50/60 Hz, < 6.3 A	
COMPUTER INTERFACE	Ethernet (RJ45 connector)	
OPERATING TEMPERATURE [°C]	15 - 30	
STORAGE TEMPERATURE [°C]	5 - 70	
CABLE LENGTH	3 m [10 ft], 10 m [33 ft], 15 m [50 ft]	
Certification		
	EN CORRE 1 01010,0001 01000 0 1,0001	
EN 00020	EN 60825-1, 61010:2001, 61000-6-1:2001	
CDRH	CDRH 21 CFR 1040.10	

- Operating the laser at higher than 10% above the specified pulse energy values may result in optical damage, which is not covered under warranty
 Requires second harmonic module based on KTP (45 mJ is pulse energy specification with a LBO based second harmonic module)
 Operation at 355 nm requires a LBO based second harmonic module for specified pulse energy
 Operation at 266 nm requires a KTP based second harmonic module for specified pulse energy



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