Spruce 532nm Lasers

Nanosecond integrated Laser

Features

- Integrated design, compact all in one laser
- Technical performance indicators have reached the internationally advanced level, high reliability
- Frequency tripling point moving function ensure

PCB/FPC | Glass | Wafer | Solar Cell | Special Metal

Specification

Mode	Spruce-532-20	Spruce-532-35
Output Power Energy	>20 W > 400 µJ@50 kHz	>35 W > 600 µJ@50 kHz
Wavelength	532 nm	532 nm
Repetition Rate	20-200 kHz	50-500 kHz
Pulse Width	<15 ns@50 kHz	<30 ns@100 kHz
Spatial Mode	$TEM_{00}(M^2 \leq 1.2)$	$TEM_{00}(M^2 \leq 1.3)$
Beam Divergence	≤2 mrad	≤2 mrad
Astigmatism	<0.2	<0.2
Beam Circularity	≥90%	≥90%
Polarization Ration	>100:1	>100:1
Polarization Direction	Horizontal	Horizontal
Beam Pointion Stability	<25 µrad/°C	<25 µrad/°C
Pulse Energy Stability	≤3% RMS	≤3% RMS
Power Stability	≤5% RMS	≤5% RMS
Long-term Pointing Stability	<25 µrad/°C	<25 µrad/°C
External Comms	RS-232, USB	RS-232, USB
Beam Diameter, 0.3m	≤2 mm	≤2 mm
Working Material	$Nd:YV_4O$	$Nd:YV_4O$
Warm-up Time	<15 min	<15 min
Operating Temperature	+10 to +35 °C	+10 to +35 °C
Cooling	Water	Water
Power Supply	230V AC, 50/60Hz (800W)	230V AC, 50/60Hz (800W)
Head Weight	10.5 kg	10.5 kg

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