

Genki – 10 HP



High power 1- μ m picosecond laser module designed for OEM and R&D applications

- Pedestal-free high quality pulses
- Clean optical spectrum – no spectral ripple
- Low amplitude and phase noise
- No amplifier built in – no ASE noise
- High repeatability and 24/7 operation
- Compact, dust-sealed OEM package
- Plug & play
- Air cooled – no water cooling
- Low power consumption
- Remote control
- One-button operation – no adjustment knobs or screws
- Maintenance free – no user-serviceable parts inside or outside laser



	Genki – 10 HP ND	Genki – 10 HP YB
Center wavelength	1064 nm	1030 nm
Pulse duration	< 10 ps	1 – 7 ps
Average output power	> 0.8 W	> 1 W
Pulse repetition rate	40 / 50 / 180 MHz	
Pulse energy (up to)	20 nJ	25 nJ
Spectral bandwidth	< 0.6 nm	< 1.3 nm
Output	collimated free space, $M^2 < 1.2$	
PER	> 23 dB	
Amplitude noise (1h)	< 0.5% rms, < 1% pk-pk	
Warm-up time	< 30 minutes	
Specs guaranteed	18 °C – 28 °C	
Storage temperature	-15 °C – 65 °C	
On/Off cycles	> 10'000	
Size laser head ¹	230 x 196 x 54 mm ³	
Size controller	425 x 352 x 134 mm ³ (19" rack mount)	
Power consumption	< 150 W	
Power supply	90 – 264 VAC, 47 – 63 Hz	
Weight laser head ¹	5 kg	
Weight controller	2 kg	

Options

- Synchronization to external clock for ultra-low timing jitter
- Electrical interface for pump power control
- Piezo controlled cavity length
- Repetition rate tunability
- Internal monitor PD

On request

- Other pulse repetition rates
- SHG, THG, FHG
- Integration of user-defined opto-electronic devices

¹ exact size and weight depend on the pulse repetition rate, data for 40 MHz version

Sample data Genki – 10

