

# Katana HP



Versatile high power picosecond laser module for OEM and R&D applications

- Variable pulse repetition rate
- Pulse on demand – trigger input
- High pulse quality
- Narrow optical spectrum
- High repeatability and 24/7 operation



- Compact, dust-sealed OEM package
- Air cooled
- Remote control
- Plug & play – one-button operation no adjustment knobs or screws
- Maintenance free – no user-serviceable parts inside or outside laser

	Katana – 05 HP	Katana – 08 HP	Katana – 10 HP	Katana – 15 HP
Center wavelength	515 / 532 nm	775 nm	1030 / 1064 nm	1550 nm
Average output power	> 4 W	> 4 W	> 10 W	> 10 W
Pulse repetition rate <sup>1</sup>	100 kHz – 1 MHz variable, or 10 – 100 MHz fixed			
Pulse energy (up to)	4 μJ	4 μJ	10 μJ	10 μJ
Pulse duration	30 ps – 1 ns			
Spectral bandwidth	< 5 nm			
Output	collimated free space ( $M^2 < 1.4$ )			
PER	> 13 dB			
Amplitude noise (24h)	< 4 % rms			
Timing jitter	< 3 ps			
Warm-up time	< 10 h minutes			
Specs guaranteed	10 °C – 40 °C			
Storage temperature	–15 °C – 65 °C			
On/Off cycles	> 10'000			
Size laser head <sup>2</sup>	420 x 312 x 54 mm <sup>3</sup>			
Size controller <sup>2</sup>	425 x 352 x 134 mm <sup>3</sup> (19" rack mount)			
Power consumption	150 W			
Power supply	90 – 264 VAC, 47 – 63 Hz			
Weight laser head <sup>2</sup>	8 kg			
Weight controller <sup>2</sup>	6 kg			

<sup>1</sup> please inquire for possible combinations of average power and pulse repetition rate

<sup>2</sup> exact size and weight depend on model

UV option	Katana – 02 HP	Katana – 03 HP
Center wavelength	256 / 266 nm	343 / 355 nm
Average output power	> 1 W	> 1 W
Pulse energy (up to)	1 μJ	1 μJ

## Sample data Katana – 15 HP

