

HPL-532-Q/2.5~4.5mJ/25~45W

LD PUMPED ALL-SOLID-STATE AOM Q-SWITCHED LASER

All solid state AOM Q-switched laser at 532nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in marking, carving, measure, research, and so on.



SPECIFICATIONS

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|------------------------------------|--|
| Wavelength (nm) | 532±1 |
| Operating mode | Q-switched: AOM (Acousto-Optic Modulation) |
| Single pulse energy (mJ) | 2.5~4.5 |
| Pulse duration (ns) | ~100 |
| Peak power (kW) | 25~45 |
| Rep. rate (kHz) | 1~100, adjustable |
| Average power (W) | Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz) 25~45@10kHz, typical |
| Ave power stability (over 4 hours) | <3%, <5% |
| Warm-up time (minutes) | <10 |
| Beam divergence, full angle (mrad) | <3.5 |
| Beam diameter at the aperture (mm) | ~7.0 |
| Beam height from base plate (mm) | 65.0 |
| Cooled method | Water Cooled |
| Operating temperature (°C) | 15~35 |
| Power supply (220/110VAC) | PSU-HPL-Q(4U) |
| Expected lifetime (hours) | 10000 |
| Warranty period | 1 year |



| HPL-532-Q | PSU-HPL-Q(4U) | Water chiller |
|---|--|--|
|  <p>375 (L) × 165 (W) × 105 (H) mm³, 7.8kg</p> |  <p>460(L) × 320(W) × 180(H) mm³, 14.3kg</p> |  |
|  | | <p>424 (L) × 524 (W) × 815 (H) mm³, 69kg, 25W laser 474 (L) × 574 (W) × 875 (H) mm³, 71kg, 45W laser</p> |