

长春新产业光电技术有限公司

Changehun New Industries Optoelectronics Tech. Co., Ltd.

DATA SHEET

DPS-532-PS/2~8W

HIGH POWER DIODE PUMPED ALL-SOLID-STATE MODE LOCKED LASER

High average power diode pumped all solid state laser at 532nm has the features of short pulse duration, high repetition rate and high average power, which is widely used in industrial processing, physics experiment, scientific research, and so on.









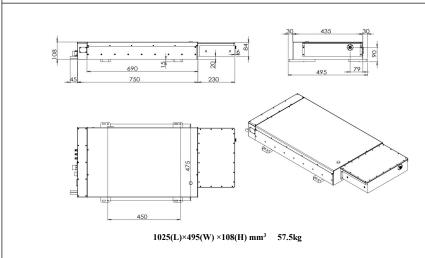
SPECIFICATIONS

| Wavelength (nm) 532±1 Operating mode Pulsed Output power (W) 5@1MHz 10@1MHz Output energy (ul) 30@200KHz 60@200KHz Power stability (rms) <3%,<5% Pulse width (ps) <15 M² factor ≤1.4 Pointing stability (urad) <50 Elipticity >85% Polarization 100:1 Beam diameter (mm) 1.5±0.5 Beam divergence, full angle (mrad) ≤2 Repetition frequency (KHz) 0~1000 Control mode Gate/burst/INT control Beam height from base plate (mm) 90 Cooled method Water cooled Warm-up time (minutes) <15 Operating temperature (°C) 15~30 Relative humidity <60% Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year Options Output power 15W and 20W can be customized | | | | |
|---|------------------------------------|--|-----------|--|
| Output power (W) 5@1MHz 10@1MHz Output energy (uJ) 30@200KHz 60@200KHz Power stability (rms) <3%,<5% | Wavelength (nm) | 532±1 | | |
| Output energy (ul) 30@200KHz 60@200KHz Power stability (rms) <3%,<5% | Operating mode | Pulsed | | |
| Power stability (rms) $<3\%,<5\%$ Pulse width (ps) <15 M^2 factor ≤ 1.4 Pointing stability (urad) <50 Elipticity $>85\%$ Polarization $100:1$ Beam diameter (mm) 1.5 ± 0.5 Beam divergence, full angle (mrad) ≤ 2 Repetition frequency (KHz) $0-1000$ Control mode Gate/burst/INT control Beam height from base plate (mm) 90 Cooled method Water cooled Warm-up time (minutes) <15 Operating temperature (°C) $15\sim30$ Relative humidity $<60\%$ Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year | Output power (W) | 5@1MHz | 10@1MHz | |
| Pulse width (ps) <15 | Output energy (uJ) | 30@200KHz | 60@200KHz | |
| M^2 factor ≤1.4 Pointing stability (urad) <50 | Power stability (rms) | <3%,<5% | | |
| Pointing stability (urad) <50 | Pulse width (ps) | <15 | | |
| Elipticity >85% Polarization $100:1$ Beam diameter (mm) 1.5 ± 0.5 Beam divergence, full angle (mrad) ≤ 2 Repetition frequency (KHz) $0 \sim 1000$ Control mode Gate/burst/INT control Beam height from base plate (mm) 90 Cooled method Water cooled Warm-up time (minutes) <15 Operating temperature (°C) $15\sim 30$ Relative humidity $<60\%$ Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year | M ² factor | ≤1.4 | | |
| Polarization $100:1$ Beam diameter (mm) 1.5 ± 0.5 Beam divergence, full angle (mrad) ≤2 Repetition frequency (KHz) $0 \sim 1000$ Control mode Gate/burst/INT control Beam height from base plate (mm) 90 Cooled method Water cooled Warm-up time (minutes) <15 | Pointing stability (urad) | <50 | | |
| Beam diameter (mm) 1.5 ± 0.5 Beam divergence, full angle (mrad) ≤ 2 Repetition frequency (KHz) $0-1000$ Control mode Gate/burst/INT control Beam height from base plate (mm) 90 Cooled method Water cooled Warm-up time (minutes) <15 Operating temperature (°C) $15-30$ Relative humidity $<60\%$ Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year | Elipticity | >85% | | |
| Beam divergence, full angle (mrad) ≤2 Repetition frequency (KHz) 0~1000 Control mode Gate/burst/INT control Beam height from base plate (mm) 90 Cooled method Water cooled Warm-up time (minutes) <15 Operating temperature (°C) 15~30 Relative humidity <60% Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 1 year | Polarization | 100:1 | | |
| Repetition frequency (KHz) | Beam diameter (mm) | 1.5±0.5 | | |
| Control mode Beam height from base plate (mm) Cooled method Warn-up time (minutes) Operating temperature (°C) Relative humidity Power supply (AC 220V) Expected lifetime (hours) Power supply Warranty Sate of Sate/burst/INT control Water cooled Water cooled Water cooled Water cooled Water cooled Vater cooled Water cooled Power supply Sate of Sate | Beam divergence, full angle (mrad) | ≤2 | | |
| Beam height from base plate (mm) 90 Cooled method Water cooled Warm-up time (minutes) <15 Operating temperature (°C) 15~30 Relative humidity <60% Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year | Repetition frequency (KHz) | 0~1000 | | |
| Cooled method Water cooled Warm-up time (minutes) <15 Operating temperature (°C) 15~30 Relative humidity <60% Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year | Control mode | Gate/burst/INT control | | |
| Warm-up time (minutes) <15 Operating temperature (°C) 15~30 Relative humidity <60% Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year | Beam height from base plate (mm) | 90 | | |
| Operating temperature (°C) 15~30 Relative humidity < 60% Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year | Cooled method | Water cooled | | |
| Relative humidity <60% Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year | Warm-up time (minutes) | <15 | | |
| Power supply (AC 220V) PSU-DPS-PS Expected lifetime (hours) 10000 Warranty 1 year | Operating temperature (°C) | 15~30 | | |
| Expected lifetime (hours) 10000 Warranty 1 year | Relative humidity | <60% | | |
| Warranty 1 year | Power supply (AC 220V) | PSU-DPS-PS | | |
| | Expected lifetime (hours) | 10000 | | |
| Options Output power 15W and 20W can be customized | Warranty | 1 year | | |
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DPS-532-PS



PSU-DPS-PS

