

High Power Diode Pumped Solid State Modules- DPSS family

Diode Pumped Solid State Amplification Module DPSS-3-700

Technical Specifications	
Operating mode	Continuous Wave (CW) or Quasi-Continuous Wave (QCW)
Nd:YAG rod dimensions:	
- Diameter	- 3 mm +0/-0.02 mm
- Total rod length	- 101.6 mm
- Pumping rod length	- 70 mm
Light Emitters	Mounted diode bars*
Number of Diode Arrays	3 pcs., at an angle of 120 ° around the laser crystal.
Number of Diode Bars per Array	6 pcs.
Diode Bar width	10 mm
Bar pitch	0.5-1 mm
Single Diode Bar Pumping Power	40 W at CW/100 W at QCW
Diode bar Slope efficiency	> 1.1 W/A
Maximum Duty cycle	25%** at QCW
Total Pumping Power	720 W at CW/ 3000 W at QCW
Central Wavelength	808 nm +/- 2 nm***
Spectral width (FWHM)	3 nm
Beam divergence (°) (FWHM)	<40⊥<10
Wavelength drift coefficient (nm/°C)	~0.28
Type of cooling	Water cooling****
Water Temperature range	15-30°C
Recommended Water flow	> 14 l/min*****
Environment	compatible with standard laboratory working environment with operating temperature range: 25 +1/-3 °C, temperature stability: +/- 2 degree (for 30 min measurement interval), and relative humidity <70%, non-condensing
Typical Applications	Laser amplifiers, Cascade laser amplifiers, laser resonators, medical lasers and laser radars.
User Manual and Data Sheets are available in English in pdf file format.	

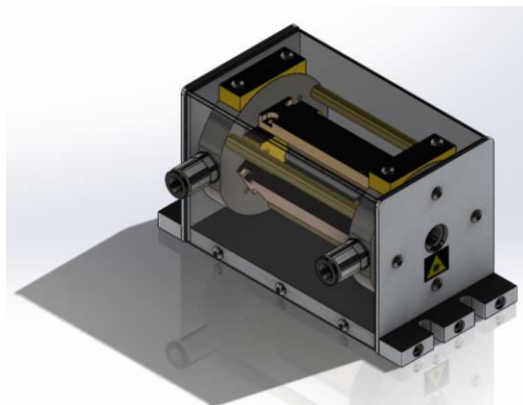
*The module has a flexible design using diode bars and diode bar Oriental-laser soldering technology
<https://www.oriental-laser.com/water-cooling-diode-lasers/>; Water Cooling HS Series Horizontal Line Array for QG series high energy QCW DPSS Module

**At < 500 Hz repetition rate!

***At 25° working temperature at maximum pump power.

****Water fitting connectors are included!

*****With this water flow, the maximum dissipated heat is up to 3 kW.





Diode Pumped Solid State Amplification Module DPSS-5-3000

Technical Specifications	
Operating mode	Continuous Wave (CW) or Quasi-Continuous Wave (QCW)
Nd:YAG rod dimensions:	
- Diameter	- 5 – 6.35 mm +0/-0.02 mm
- Total rod length	- 101.6 mm
- Pumping rod length	- 70 mm
Light Emitters	Mounted diode bars*
Number of Diode Arrays	5 pcs., at an angle of 72° around the laser crystal.
Number of Diode Bars per Array	6 pcs.
Diode Bar width	10 mm
Bar pitch	0.5-1 mm
Single Diode Bar Pumping Peak Power	40 W at CW/100 W at QCW
Diode bar Slope efficiency	> 1.1 W/A
Maximum Duty cycle	25%** at QCW
Total Pumping Power	720 W at CW/ 3000 W at QCW
Maximum Repetition rate	1000 Hz
Central Wavelength	808 nm +/- 2 nm***
Spectral width (FWHM)	3 nm
Beam divergence (°) (FWHM)	<40⊥<10
Wavelength drift coefficient (nm/°C)	~0.28
Type of cooling	Water cooling****
Water Temperature range	15-30°C
Recommended Water flow	> 14 l/min*****
Environment compatible with standard laboratory working environment with operating temperature range: 25 +1/-3 °C, temperature stability: +/- 2 degree (for 30 min measurement interval), and relative humidity <70%, non-condensing	
Typical Applications	Laser amplifiers, Cascade laser amplifiers, laser resonators, medical lasers and laser radars.
User Manual and Data Sheets are available in English in pdf file format.	

*The module has a flexible design using diode bars and diode bar Oriental-laser soldering technology.
<https://www.oriental-laser.com/water-cooling-diode-lasers/>; Water Cooling HS Series Horizontal Line Array for QG series high energy QCW DPSS Module

**At < 500 Hz repetition rate!

***At 25° working temperature at maximum pump power.

****Water fitting connectors are included!

*****With this water flow, the maximum dissipated heat is up to 3 kW.

