

Mini series Compact diode module

The PEGASUS Mini is a series of temperature stabilized diode laser modules, with good power and wavelength stability. The compact industrial housing of 107 x 45 x 25 mm³ can be supplied with medium power singlemode or multimode UV, VIS or IR laser diodes. The rectangular baseplate ensures a much better heat dissipation than often used cylindrical housings to receive a better life time performance.

Additional to standard version with collimated, elliptical beam, the modules are optional available with line generating optic or as fiber pigtailed model, in order to provide a versatile solution for integration in several industrial systems, as flow cytometry, particle measurement, machine vision or microscope illumination.



Violet, blue, green, red, IR

Specifications

Available wavelengths (nm)

(others on request)

Single mode (SM)

405, 445, 450,
488,
515
635, 638, 640
650, 660
785, 808

Multi mode (MM)

405, 450
462
515, 520
638, 520
650, 660, 670
785, 808

Optical power

Single mode (SM)

up to 200 mW
(depending on LD)

Multi mode (MM)

up to 1000 mW
(depending on LD)

Beam size

(exact size and ellipticity depends on model)

elliptical / rectangular

Divergence

< 1.5 mrad (full angle)

Spatial mode

SM or MM
(depending on LD type)

Power stability

< +/- 1 % (over 1 h)

Polarisation

>50:1 - >200:1

Temperature stabilization

Internal TEC

Height of optical axis

14.5 mm

Operation current

< 2 A
(depends on model)

Modulation

DC - 200 kHz
(with optional driver)

Laser head dimension

107 x 45 x 25 mm³

Operation temperature

10 - 35°C

Laser class (EN 60825-1)

3B or 4

Option

MM fiber coupling
(50, 100, 200, 400 μm)

Notes: Laser baseplate must be attached to external heatsink.
Specifications are given for T = 20°C constant environment.

