# Pulsed 1064nm high power Laser Source Module

## Description

The 1064nm pulse laser source module of Idealphotonics Laser is specially designed for pulse application. It is an ideal seed laser for fiber laser .This laser source module employs internally high performance diode laser which is especially designed for pulse application. The laser is modulated directly to pulse laser by the pulse circuit with optimized design. The ns level, MHz pulse output can be achieved, with the peak power up to 1W.

The 1064nm pulse laser source of Idealphotonics Laser use module package. They have compact structure and tiny volume with 5V DC supply, industry standard DB25 communication port design and built-in signal generator. The user can control the computer and operate easily by upper computer software. The pulse output can be also achieved by external TTL trigger signal, which is very suitable for system integration.

## Feature

- Operating wavelength：1060-1080nm
- Peak power up to 1W
- Short pulse operation 1ns-1us
- Output isolation
- High stability and reliability

## Application

- Seed laser for pulsed fiber laser
- Test and measurement
- Optical fiber sensing
- Spectrum analysis
- Other lab applications

## Specification

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| Parameter | unit | Specification | | |
|---|---|---|---|---|
| | | Min | Typ. | Max |
| Part No | | IDP-1064-M-PL | | |
| Peak operating wavelength[1] | nm | 1059 | 1064 | 1069 |
| Spectral width（FWHM） | nm | - | - | 1 |
| Peak power | mW | - | - | 1000 |
| Pulse rise and fall time | ns | - | 2 | - |
| Pulse width | ns | 1 | - | 1000 |
| Frequency | kHz | 10 | - | 1000 |
| side mode suppress ratio（SMSR） | dB | 20 | - | - |
| Output power stability（15 mins）[2] | % | - | ±0.5 | ±1.0 |
| Output power stability（8 h）[2] | % | - | ±1.0 | ±2.0 |
| Output power adjustment range | % | 0 | - | 100 |
| Output power adjustment mode | | Coarse/fine | | |
| Operating voltage | VDC | 24 | | |
| Power Consumption[3] | W | - | - | 30 |
| Operating temperature | ℃ | 0 | - | 50 |
| Storage temperature | ℃ | -40 | - | 85 |
| Output fiber | | SM fiber（PM optional） | | |
| Length of output fiber | m | > 1 | | |
| Output termination options | | FC/APC or other | | |
| Dimension | mm | 200（L）*135（W）*27.5（H） | | |

1.Other operating wavelengths are available：1032nm、1055nm、1080nm；

2.The output power stability is measured under 25℃，30 minutes after warm-up；

3.The max power consumption refers to power consumption under the extreme conditions.

## Ordering Information：

IDP-1064-M-PL-XX-YY-ZZ

PW:Output power in mW ,example:300-300mW,400-400mW

XX:pulse width in ns；YY-frequency in KHz；ZZ-peak power in W.