

DPS-1064-Q/1-40mJ

## HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

High energy diode pumped all solid state Q-switched laser at 1064nm has the features of high single pulse energy, short pulse duration, and high peak power, which is widely used in PIV, LIF, LIBS, ICP-MS scientific research, laser processing, and so on.



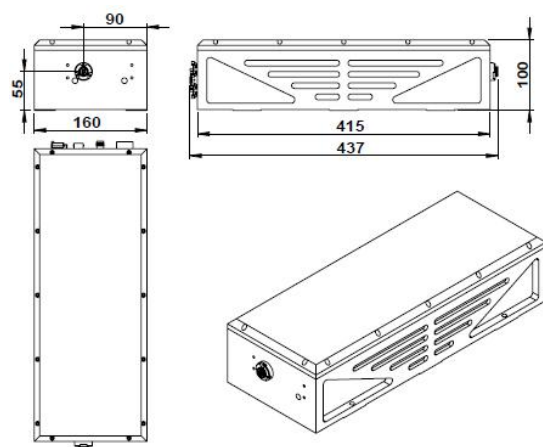
### SPECIFICATIONS

|                                    | DPS-1064-Q-I                           |       |       |                         |                       | DPS-1064-Q-II |  |
|------------------------------------|----------------------------------------|-------|-------|-------------------------|-----------------------|---------------|--|
| Wavelength (nm)                    | 1064±1                                 |       |       |                         |                       |               |  |
| Operating mode                     | Actively                               |       |       |                         |                       |               |  |
| Single pulse energy (mJ)           | 1-10                                   | 10-20 | 20-30 | 30-40                   | 1-5                   | 5-10          |  |
| Pulse duration (ns)                | <12                                    | <12   | <12   | <10                     | <12                   |               |  |
| Jitter (ns, sdev)                  | <1ns (Int.)                            |       |       |                         |                       |               |  |
| Rep. rate <sup>1</sup>             | 1-100Hz (adjustable)                   |       |       |                         | 1-1000Hz (adjustable) |               |  |
| Energy stability (std dev/mean)    | <3%, <2%                               |       |       | <3%, <2%,(<1% optional) | <3%, <2%              |               |  |
| Beam divergence, full angle (mrad) | <2                                     |       |       |                         |                       |               |  |
| Beam diameter (mm)                 | ~2                                     | ~2.5  | ~3    | ~4                      | ~2                    |               |  |
| Warm-up time (minutes)             | <15                                    |       |       |                         |                       |               |  |
| Beam height from base plate (mm)   | 55                                     |       |       |                         |                       |               |  |
| Cooled method                      | Water cooled                           |       |       |                         |                       |               |  |
| Operating temperature (°C)         | 15-35                                  |       |       |                         |                       |               |  |
| Power supply (110/220VAC)          | PSU-DPS-Q-I/PSU-DPS-Q-II/PSU-DPS-Q-III |       |       |                         |                       |               |  |
| Expected lifetime (pulses)         | 10 <sup>9</sup>                        |       |       |                         |                       |               |  |
| Available options                  | Attenuator;                            |       |       |                         |                       |               |  |



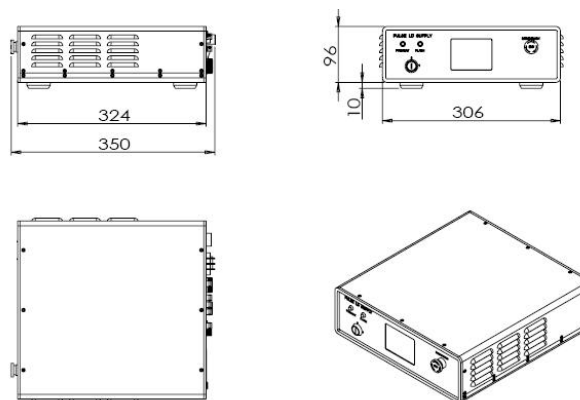
### DPS-1064-Q-I

#### LASER HEAD (DPS-1064-Q-I)



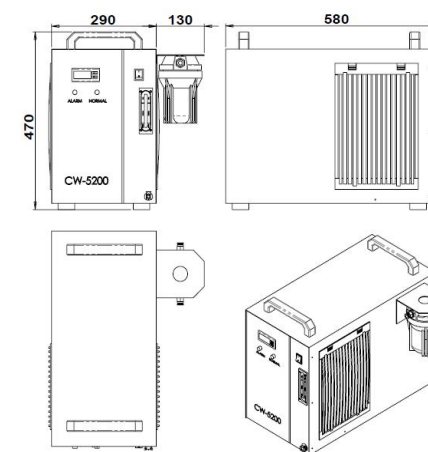
437 (L) × 160 (W) × 100 (H) mm<sup>3</sup>, 7.5 kg

#### POWER SUPPLY (PSU-DPS-Q-I)



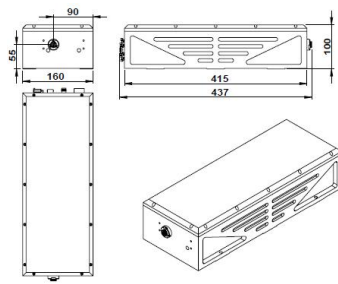
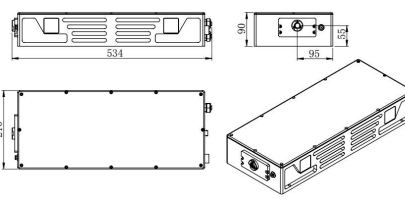
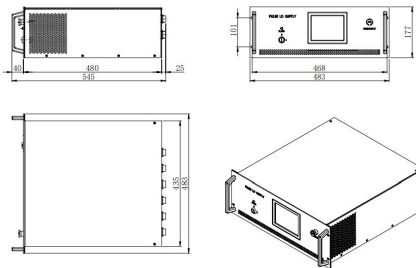
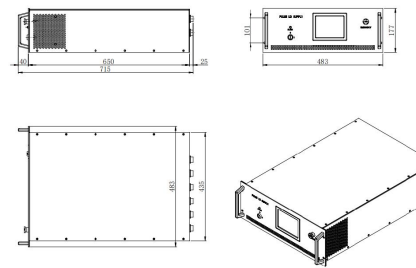
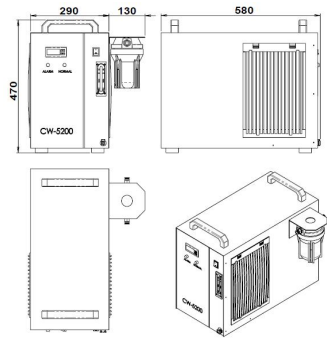
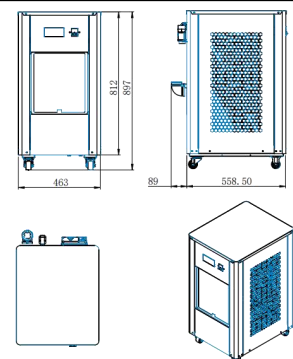
350 (L) × 306 (W) × 106 (H) mm<sup>3</sup>, 6 kg

#### WATER CHILLER (WCH-1500)



580 (L) × 290 (W) × 470 (H) mm<sup>3</sup>, 24 kg

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| DPS-1064-Q-II                                                                                                                               |                                                                                                                                      |                                                                                                                                                 |                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| LASER HEAD (DPS-1064-Q-I) <sup>2</sup>                                                                                                      | LASER HEAD (DPS-1064-Q-II) <sup>3</sup>                                                                                              | POWER SUPPLY (PSU-DPS-Q-II) <sup>4</sup>                                                                                                        | POWER SUPPLY (PSU-DPS-Q-III) <sup>5</sup>                                                                                                    |
|  <p>415 (L)×160(W)100(H) mm<sup>3</sup>, 7.5 kg</p>        |  <p>534 (L)×210(W)×90(H) mm<sup>3</sup>, 11 kg</p> |  <p>545 (L) × 483 (W) × 177 (H) mm<sup>3</sup>, 28 kg</p>    |  <p>715 (L) × 483 (W) × 177 (H) mm<sup>3</sup>, 30 kg</p> |
| WATER CHILLER (WCH-1500) <sup>6</sup>                                                                                                       |                                                                                                                                      | WATER CHILLER (WCH-2700) <sup>7</sup>                                                                                                           |                                                                                                                                              |
|  <p>580 (L) × 290 (W) × 470 (H) mm<sup>3</sup>, 24 kg</p> |                                                                                                                                      |  <p>463 (L) × 647.5 (W) × 897 (H) mm<sup>3</sup>, 55 kg</p> |                                                                                                                                              |

1 Both internal trigger and external trigger are acceptable.

2 For 1-5mJ@1kHz.

3 For 5-10mJ@1kHz.

4 For 1-5mJ@1kHz.

5 For 5-10mJ@1kHz.

6 For 1-5mJ@1kHz.

7 For 5-10mJ@1kHz.