

|                                                                                                   |                          |           |        |
|---------------------------------------------------------------------------------------------------|--------------------------|-----------|--------|
| <br><b>GZTECH</b> | Specifications           | Revision: | V4.3   |
|                                                                                                   | Pulsed picosecond lasers | Date:     | 202601 |
|                                                                                                   | Model: S-10-532-P1       | Page:     | 1/4    |

## 1. Optical characteristics

| No. | Characteristics                            | Parameter value | Unit |
|-----|--------------------------------------------|-----------------|------|
| 1   | Central wavelength                         | 532             | nm   |
| 2   | Output power                               | > 10            | W    |
| 3   | Repetition rate                            | single ~ 2      | MHz  |
| 4   | Pulse width                                | < 12            | ps   |
| 5   | Output power instability                   | < 1%            | RMS  |
| 6   | Beam quality M <sup>2</sup>                | < 1.2           | /    |
| 7   | Spot roundness                             | > 90%           | /    |
| 8   | 1/e <sup>2</sup> beam diameter (Bare beam) | 2.2 ± 0.2       | mm   |
| 9   | Polarization direction                     | Vertical        | /    |
| 10  | Polarization ratio                         | > 100:1         | /    |
| 11  | Divergence angle (full angle)              | < 1.0           | mrad |
| 12  | Warm-up time                               | < 10            | min  |

## 2. Electrical characteristics

| No. | Characteristics          | Parameter value | Unit |
|-----|--------------------------|-----------------|------|
| 1   | Power supply voltage     | 100~240         | VAC  |
| 2   | Working voltage          | 24              | VDC  |
| 3   | Working current          | <20             | A    |
| 4   | Power consumption        | <480            | W    |
| 5   | Recommended power supply | >600            | W    |

|                                                                                                   |                          |           |        |
|---------------------------------------------------------------------------------------------------|--------------------------|-----------|--------|
| <br><b>GZTECH</b> | Specifications           | Revision: | V4.3   |
|                                                                                                   | Pulsed picosecond lasers | Date:     | 202601 |
|                                                                                                   | Model: S-10-532-P1       | Page:     | 2/4    |

### 3. Environmental requirements

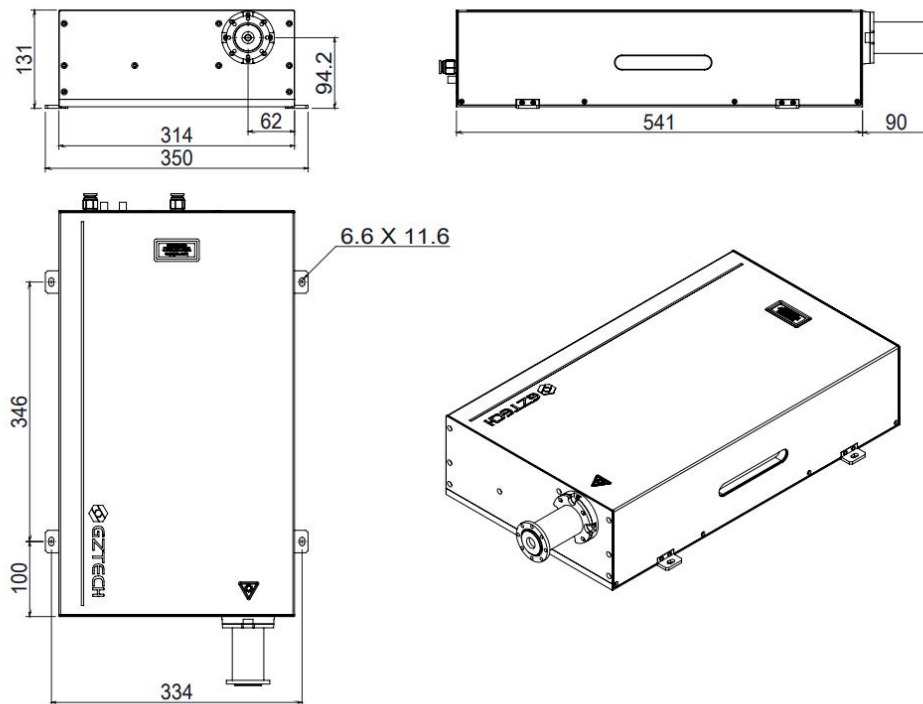
| No. | Characteristics                | Parameter value        | Unit  |
|-----|--------------------------------|------------------------|-------|
| 1   | Ambient temperature            | 15 - 35                | °C    |
| 2   | Storage temperature            | -10 - 50               | °C    |
| 3   | Ambient relative humidity      | < 90%, no condensation | /     |
| 4   | Cooling capacity               | > 1000                 | W     |
| 5   | Water flow rate                | > 8                    | L/min |
| 6   | Water tank temperature control | 25 ± 0.1               | °C    |
| 7   | Water pipe diameter (laser)    | 10                     | mm    |

### 4. Structural characteristics

| No. | Characteristics                                            | Parameter value | Unit            |
|-----|------------------------------------------------------------|-----------------|-----------------|
| 1   | Laser dimension<br>(without feet and galvanometer adapter) | 541*314*131     | mm <sup>3</sup> |
| 2   | Net weight                                                 | 28              | kg              |
| 3   | Gross weight                                               | 30              | kg              |

|                                                                                                   |                          |           |        |
|---------------------------------------------------------------------------------------------------|--------------------------|-----------|--------|
| <br><b>GZTECH</b> | Specifications           | Revision: | V4.3   |
|                                                                                                   | Pulsed picosecond lasers | Date:     | 202601 |
|                                                                                                   | Model: S-10-532-P1       | Page:     | 3/4    |

## 5. Dimension



**Laser dimension**

## 6. Galvanometer connection tube

