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|---------------------------------------------------------------------------------------------------|----------------------------|-----------|--------|
| <br><b>GZTECH</b> | Specifications             | Revision: | V1.1   |
|                                                                                                   | Green fiber lasers         | Date:     | 202507 |
|                                                                                                   | Model: YFPN-100-GR-LA03031 | Page:     | 1/4    |

## 1. Optical characteristics

| No. | Characteristics                   | Parameter value     | Unit |
|-----|-----------------------------------|---------------------|------|
| 1   | Central wavelength                | 532                 | nm   |
| 2   | Spectral width                    | < 1                 | nm   |
| 3   | Maximum single pulse energy       | 0.16                | mJ   |
| 4   | Maximum peak power                | 10                  | kW   |
| 5   | Average power                     | 100                 | W    |
| 6   | Power adjustment range            | 0 - 100             | %    |
| 7   | Frequency adjustment range        | 10 - 50000          | kHz  |
| 8   | Laser switching ON/OFF time       | < 10                | μs   |
| 9   | Pulse width                       | 1 - 120             | ns   |
| 10  | Output power instability          | < 2%                | RMS  |
| 11  | Beam quality M <sup>2</sup>       | < 1.2               | /    |
| 12  | Spot ellipticity                  | > 90                | %    |
| 13  | Polarization direction            | Linear polarization | /    |
| 14  | Anti-high reflection              | Yes                 | /    |
| 15  | Beam diameter (1/e <sup>2</sup> ) | 2.5 ± 0.5           | mm   |
| 16  | Delivery cable length             | 3                   | m    |

|                                                                                                   |                            |           |        |
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|                                                                                                   | Model: YFPN-100-GR-LA03031 | Page:     | 2/4    |

## 2. Electrical characteristics

| No. | Characteristics          | Parameter value | Unit |
|-----|--------------------------|-----------------|------|
| 1   | Power supply voltage     | 48              | VDC  |
| 2   | Working current          | < 15            | A    |
| 3   | Power consumption        | < 720           | W    |
| 4   | Recommended power supply | $\geq 1000$     | W    |

## 3. Environmental requirements

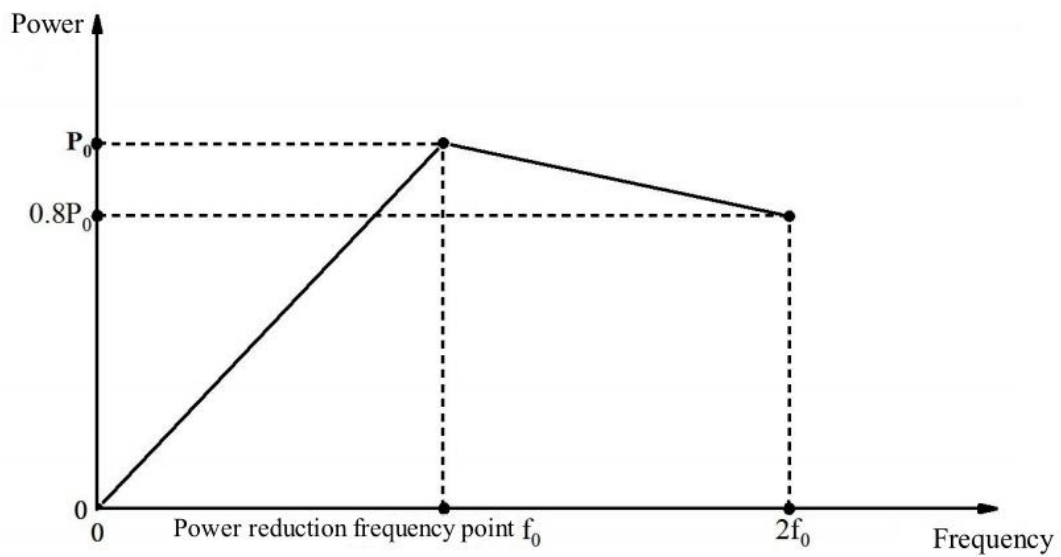
| No. | Characteristics               | Parameter value | Unit  |
|-----|-------------------------------|-----------------|-------|
| 1   | Operating temperature         | 5 - 40          | °C    |
| 2   | Storage temperature           | -10 - 60        | °C    |
| 3   | Cooling method                | Water cooling   | /     |
| 4   | Water cooling temperature     | $23 \pm 0.1$    | °C    |
| 5   | Cooling water flow rate       | > 7             | L/min |
| 6   | Water pipe diameter           | 10              | mm    |
| 7   | Water cooler cooling capacity | $\geq 1000$     | W     |

## 4. Structural characteristics

| No. | Characteristics | Parameter value | Unit            |
|-----|-----------------|-----------------|-----------------|
| 1   | Laser dimension | 420*318*75      | mm <sup>3</sup> |

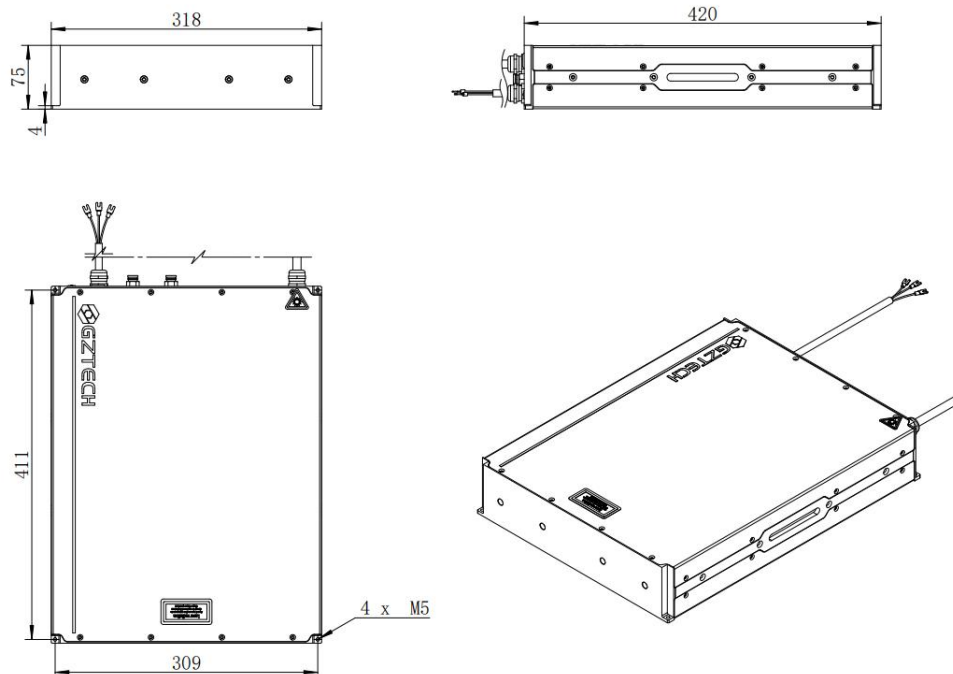
|                                                                                                   |                            |             |                 |        |
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|                                                                                                   | Model: YFPN-100-GR-LA03031 |             | Page:           | 3/4    |
| 2                                                                                                 | Output head dimension      | 392*220*106 | mm <sup>3</sup> |        |
| 3                                                                                                 | Net weight                 | 26.5        | kg              |        |

## 5. Output power and frequency characteristic curve

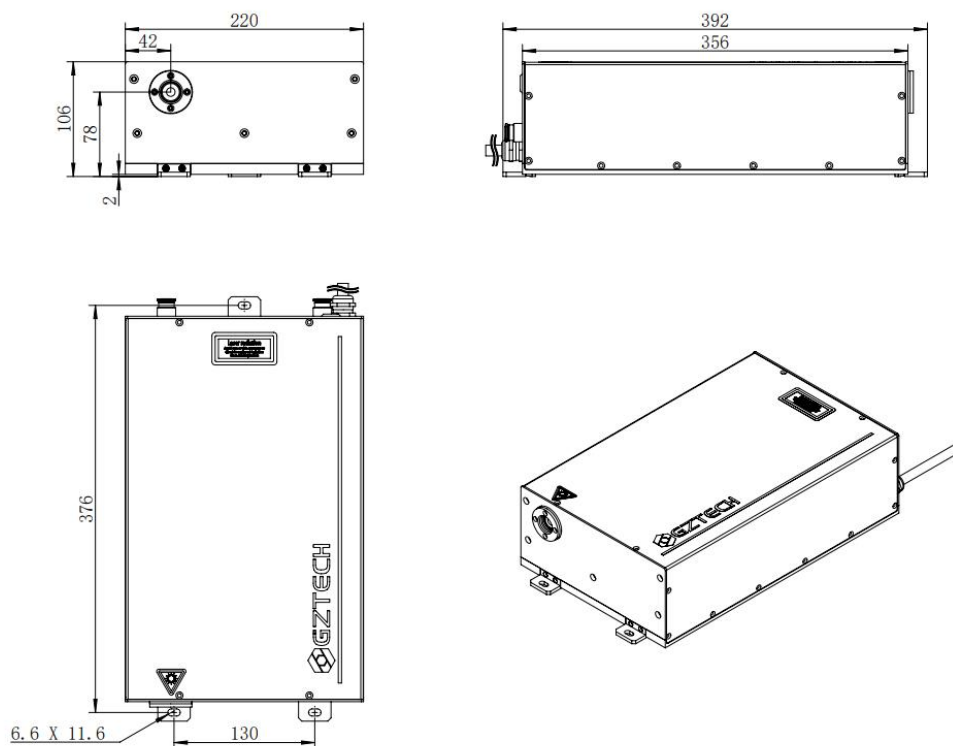


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|                                                                                                   | Model: YFPN-100-GR-LA03031 | Page:     | 4/4    |

## 6. Dimension



### Laser dimension



### Output head dimension