

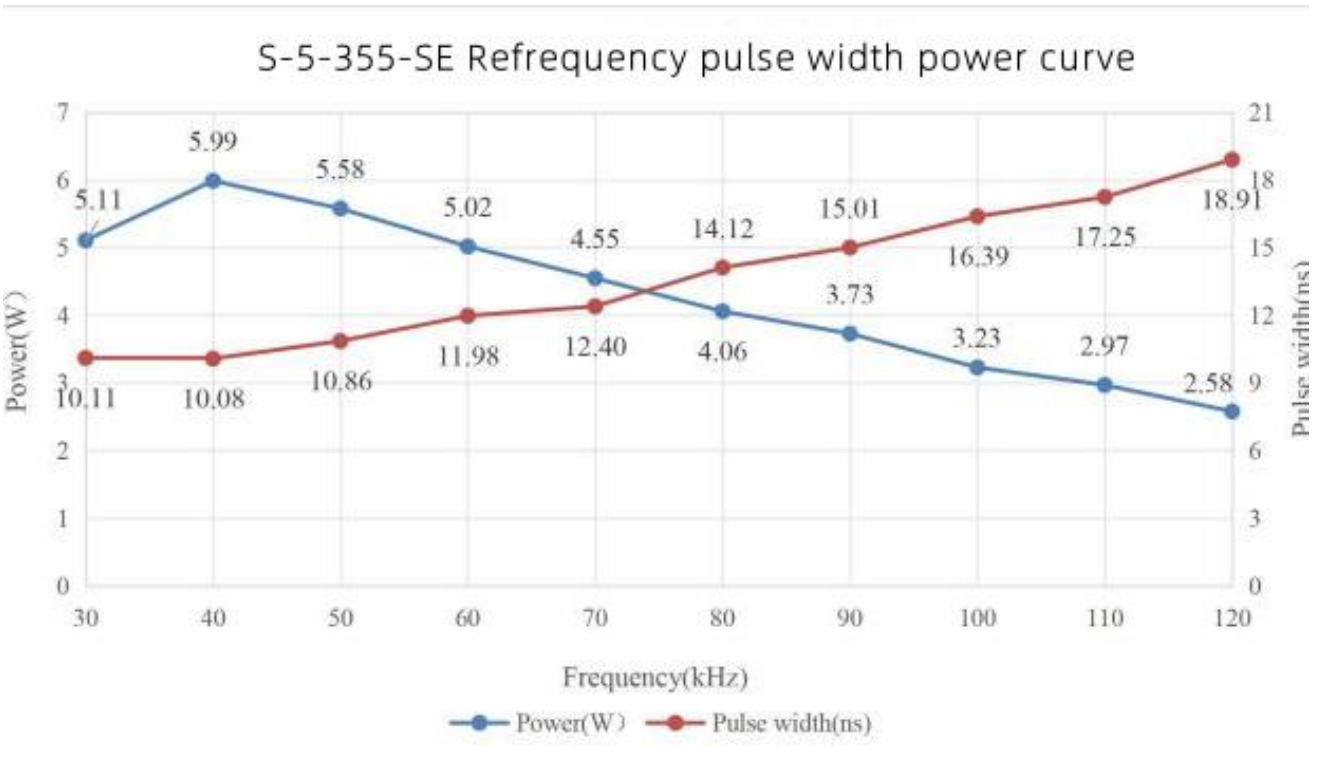
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|----------------------------------------------------------------------------------|----------------------------|-----------|--------|
|  | Specifications             | Revision: | V1.2   |
|                                                                                  | Solid nanosecond UV lasers | Date:     | 202408 |
|                                                                                  | Model: S-5-355-SE          | Page:     | 1/5    |

## 1. Optical characteristics

| No. | Characteristics                           | Parameter value | Unit |
|-----|-------------------------------------------|-----------------|------|
| 1   | Central wavelength                        | 355             | nm   |
| 2   | Maximum pulse energy                      | > 125@40kHz     | μJ   |
| 3   | Output Power                              | >5@40kHz        | W    |
| 4   | Frequency adjustment range                | 30-200          | kHz  |
| 5   | Pulse Width                               | < 15@40kHz      | ns   |
| 6   | Output power instability                  | <3%             | RMS  |
| 7   | Beam quality M <sup>2</sup>               | <1.3            | /    |
| 8   | Spot roundness                            | >90%            | /    |
| 9   | Polarization direction                    | Level           | /    |
| 10  | 1/e <sup>2</sup> bare light beam diameter | 0.4±0.1         | mm   |
| 11  | 1/e <sup>2</sup> beam diameter (10×)      | 4±1             | mm   |
| 12  | Visual beam diameter<br>(10×)             | 6±1.5           | mm   |
| 13  | Bare light divergence angle               | <2              | mrad |
| 14  | Warm- up time                             | < 10            | min  |



|                                                                                  |                            |           |        |
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## 2. Electrical characteristics

| No. | Characteristics      | Parameter value | Unit |
|-----|----------------------|-----------------|------|
| 15  | Power supply voltage | 24              | VDC  |
| 16  | Working current      | < 5             | A    |
| 17  | Power consumption    | < 120           | W    |
| 18  | Recommended power    | ≥ 200           | W    |



|                                                                                  |                            |           |        |
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### 3. Environmental requirements

| No. | Characteristics           | Parameter value | Unit |
|-----|---------------------------|-----------------|------|
| 19  | Ambient temperature       | 15~ 35          | °C   |
| 20  | Storage temperature       | - 10~50         | °C   |
| 21  | Ambient relative humidity | < 90%           | /    |

### 4. Water cooler requirements

| No. | Characteristics                | Parameter value | Unit  |
|-----|--------------------------------|-----------------|-------|
| 22  | Cooling capacity               | > 420           | W     |
| 23  | Water flow                     | > 6             | L/min |
| 24  | Water tank temperature control | 25 ± 0. 3       | °C    |

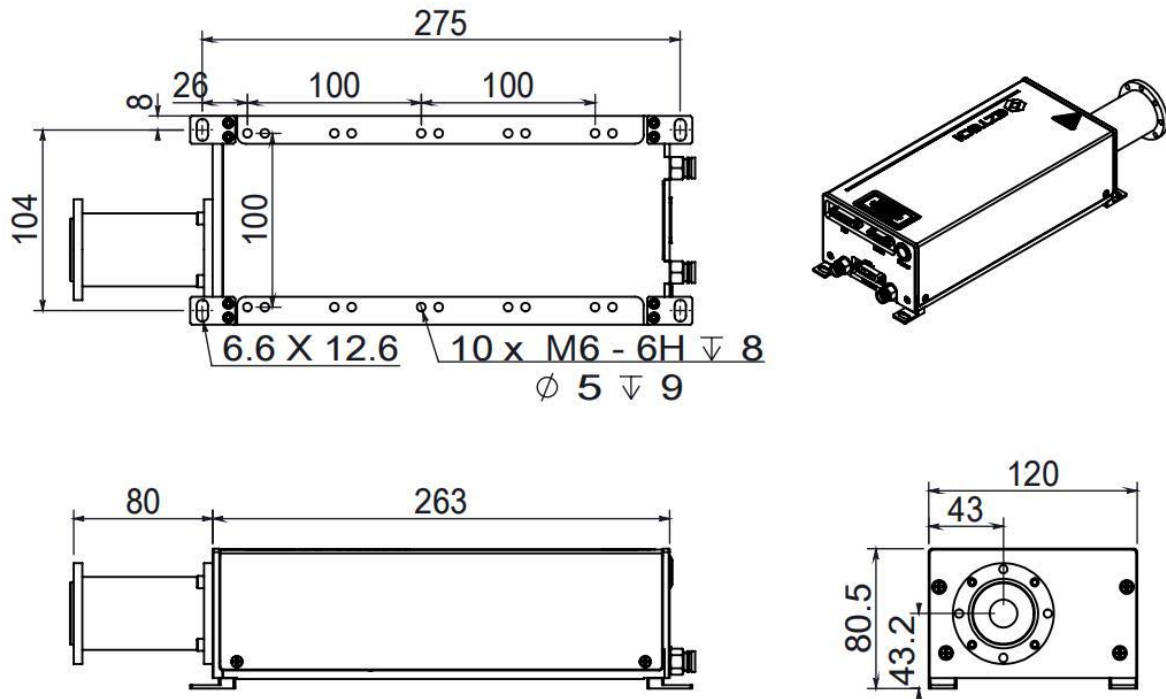
### 5. Structural characteristics

| No. | Characteristics                                          | Parameter value | Unit |
|-----|----------------------------------------------------------|-----------------|------|
| 25  | Laser dimension ( without feet and galvanometer adapter) | 263* 120* 80.5  | mm   |
| 26  | Net weight                                               | ≤4              | kg   |

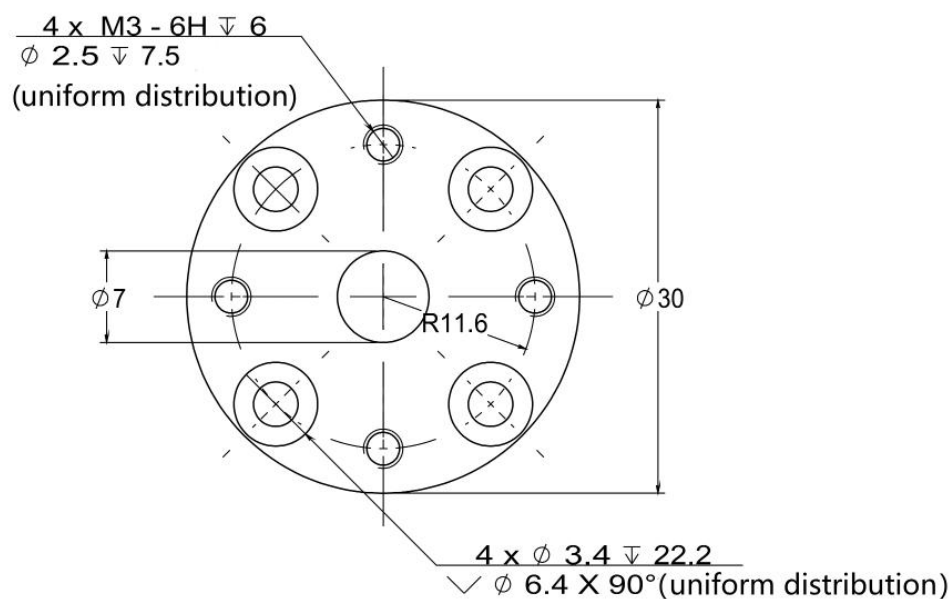


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## 6. Dimension



## 7. Flange beam expander mounting hole size (M3 threaded hole), standard for the laser

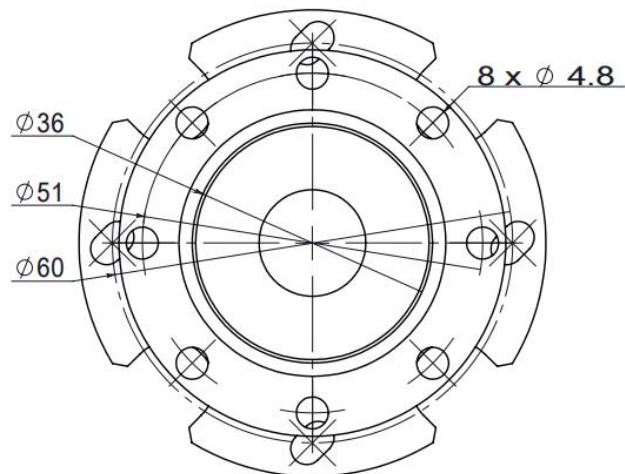


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## 8. Galvanometer connection tube



## 9. Galvanometer adapter

