|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Power** | **Flow rates** | 10ml/min | 15ml/min | 20ml/min | 30ml/min |
| **Firing Time** | 3s | 5s | 10s | 3s | 5s | 10s | 3s | 5s | 10s | 3s | 5s | 10s |
| 10w | 0.5J,20HZ | 32.0  | 34.9  | 34.3  | 29.6  | 28.4  | 32.0  | 29.7  | 30.8  | 31.4  | 28.2  | 28.0  | 28.7  |
| 1.0J,10HZ | 30.6  | 31.9  | 30.8  | 29.0  | 29.6  | 30.3  | 28.8  | 28.6  | 29.8  | 25.3  | 26.1  | 26.4  |
| 20w | 1.0J,20HZ | 56.3  | 65.2  | 73.5  | 42.2  | 54.6  | 56.2  | 37.9  | 39.4  | 39.5  | 35.4  | 36.5  | 36.1  |
| 2.0J,10HZ | 45.3  | 47.3  | 55.0  | 36.5  | 40.4  | 48.9  | 34.0  | 34.3  | 35.5  | 31.8  | 31.4  | 32.1  |
| 30w | 1.5J,20HZ | 63.1  | 67.3  | 78.0  | 55.6  | 58.2  | 59.9  | 44.7  | 48.2  | 52.3  | 34.5  | 37.4  | 38.8  |
| 3.0J,10HZ | 55.8  | 57.5  | 55.5  | 39.7  | 47.9  | 51.8  | 37.5  | 40.5  | 41.9  | 30.7  | 32.9  | 34.9  |

**Table 1. Regional temperature changes with different laser working models and irrigation flow rates**