

## Inspection Report

MODEL:GXP-355-30

SN:22040636.8

Date:20220806

### Optical Laser Parameters:

No	Test Item	Specification	Result
1	Average Power@800KHz,Burst 1	>30W	31.9W
2	Pulse Width(ps)	<15ps	9.76ps
3	Pulse repetition Rate Range(kHz)	500-2000	500-2000
4	Response rate	>95%	100%
5	Average Power Stability (over 8 hours)	<3%	0.09%
6	Beam Quality(M <sup>2</sup> )	<1.3	X=1.11,Y=1.11
7	Beam Divergence (mrad)	1.0±0.2	X=1.12,Y=1.07
8	Beam Diameter(mm)(@400mm before window)	2.0±0.2	X=2.05,Y=2.07
9	Beam Roundness	>90%	96.9%
10	Astigmatism	<0.1	0.03

### General Tests:

No	Item	Specification	Result
1	Operational Temperature Range (°C)	5 to 35	Pass
2	Warm/Cold Boot	<10min/30min	Pass
3	Flow Rate/Temperature	>5L/min@23°C	Pass
4	Communication Protocols	RS232	Pass
5	Pulse String Mode	---	Pass
6	PSO and Sync Mode	---	Pass

Tested by:ZQZ

Approved by:LYT

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**Amplifier:**

Diode 1 Current	9A	Diode 1 Temp	29.4°C
Diode 2 Current	9A	Diode 2 Temp	29.5°C
Diode 3 Current	13.5A	Diode 3 Temp	32.4°C
Diode 4 Current	14.0A	Diode 4 Temp	30.9°C
Diode 5 Current	14.0A	Diode 5 Temp	31.5°C
Crystal 1 Temp	48.0/50.5°C	Crystal 2 Temp	50.5/53.6°C

**Output Power VS Frequency & Burst Number :**

Frequency (KHZ)	Power for Burst=1 (W)
500	31.8
600	31.5
700	32.0
800	31.9
900	31.5
1000	30.7

**Output Power VS Power Set(Frequency=800K):**

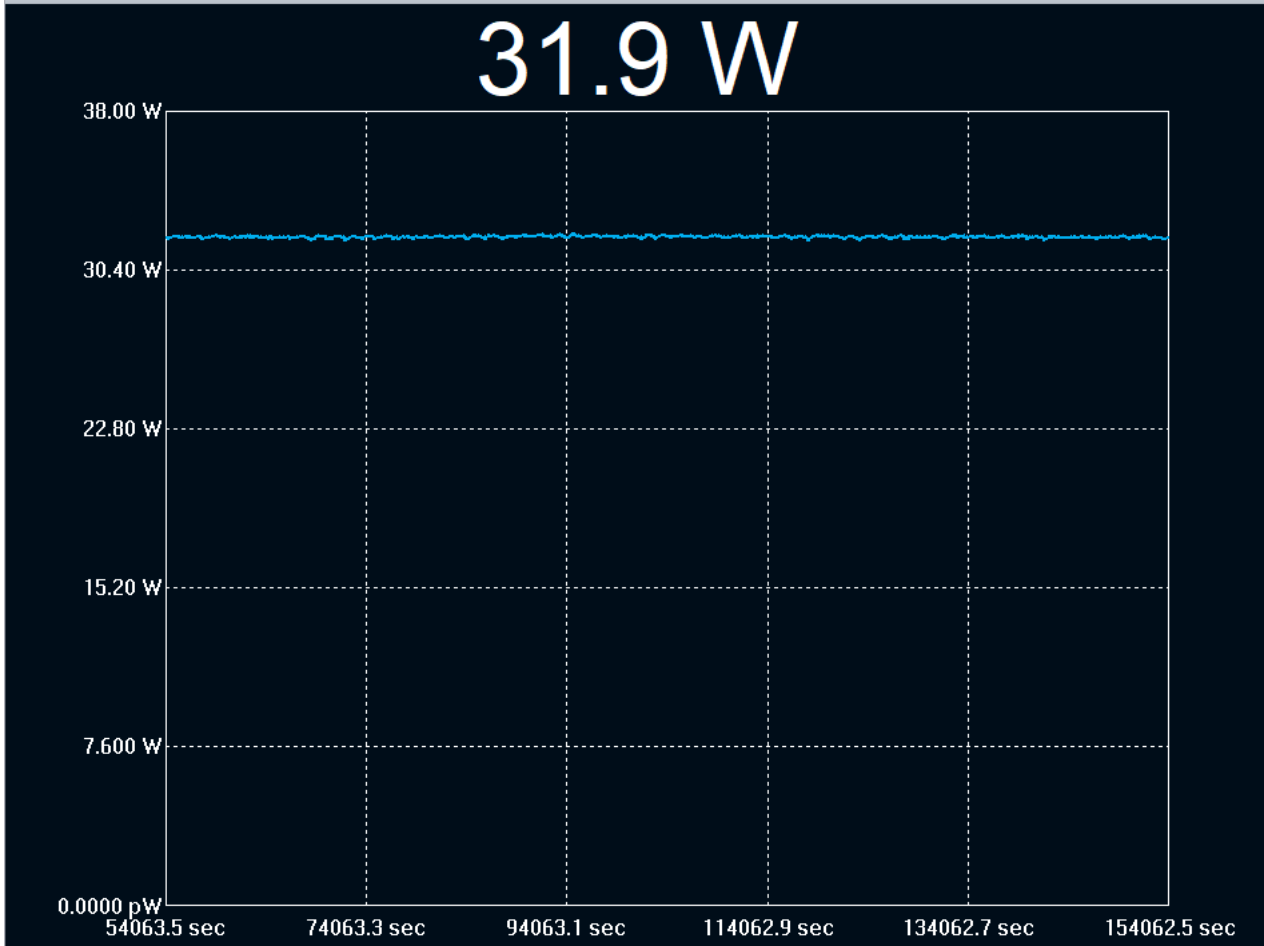
Power Set (%)	Output Power (Burst=1) (W)
10	3.5
20	6.5
30	9.2
40	12.9
50	15.8
60	19.2
70	22.1
80	25.5
90	28.6
100	31.9

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Power: 扩束衰减 0W



Beam@400mm before window:

