

3 **Test Protocol Amplifier**

Type:

neoVAN-4S-HP

Serial:

10-1610

Laser Electronic LAN-Settings:

Name:

neoVAN_101610

rapunde en minimule, pur d'impotence.

MAC:

00:01:05:28:61:75

Laser diode characterization:

(Performed with AR coated fibers, please subtract 8-9% from diode power due to installation of 20m fibers.)

Diode Current [A]	Diode Power D1 [W]	Diode Power D2 [W]	Diode Power D3 [W]	Diode Power D4 [W]
3	27.4	27.8	28.8	28.1
4	40.6	41.1	42.8	41.9
5	54.0	54.9	56.4	55.3
6	67.6	69.0	70.2	68.5

Operation Settings:

	D1	D2	D3	D4
Tempe- rature [°C]	predefined (between 25-30)	predefined (between 25-30)	predefined (between 25-30)	predefined (between 25-30)
DiodeCur- rent [A]	4.7 A		4.7 A	

Amplifier Characteristics (CW Laser): @4.5A Diode Current

Input Power	Input Beam	Beam Waist	Output	Beam		
	Waist	Position	Power	Quality		
	diameter			(M^2)		
[W]	[µm]	[mm]	[W]	II 50 mm n	II FO mm moons OLITSIDE	
2.0	260	-50	66.8	!! - 50 mm means OUTSID the head !!		
5.0	260	-50	75.5			
8.6	260	-50	81.5	<1.3	12'	

0.0	200	-50	70.0		
8.6	260	-50	81.5	<1.3	
Amplifier Chara	cteristics measur	ed at AEI Hanove	er (CW Laser): @4	1.7A Diode Curre	ent B. Salulz,
Input Power	Input Beam	Beam Waist	Output	Beam	
	Waist	Position	Power	Quality	onthe prom
	diameter			(M^2)	1 9 JK
[W]	[µm]	[mm]	[W]		Der Co
10.7	260	-50	88.6		proton of the the
21.4	260	-50	102.4		out out.
34.0	260	-50	116.5		

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ASE	Forward	Backward		
ASE (W)	8	8	3	

Comments:

The high power experiments are performed at AEI Hannover by using a 35W LIGO front-end. Some mode scans where measured and showed a TEM_{00} mode content of about 90% (seed laser: 93%)

Controller:

Date:

AS

23.02.2017