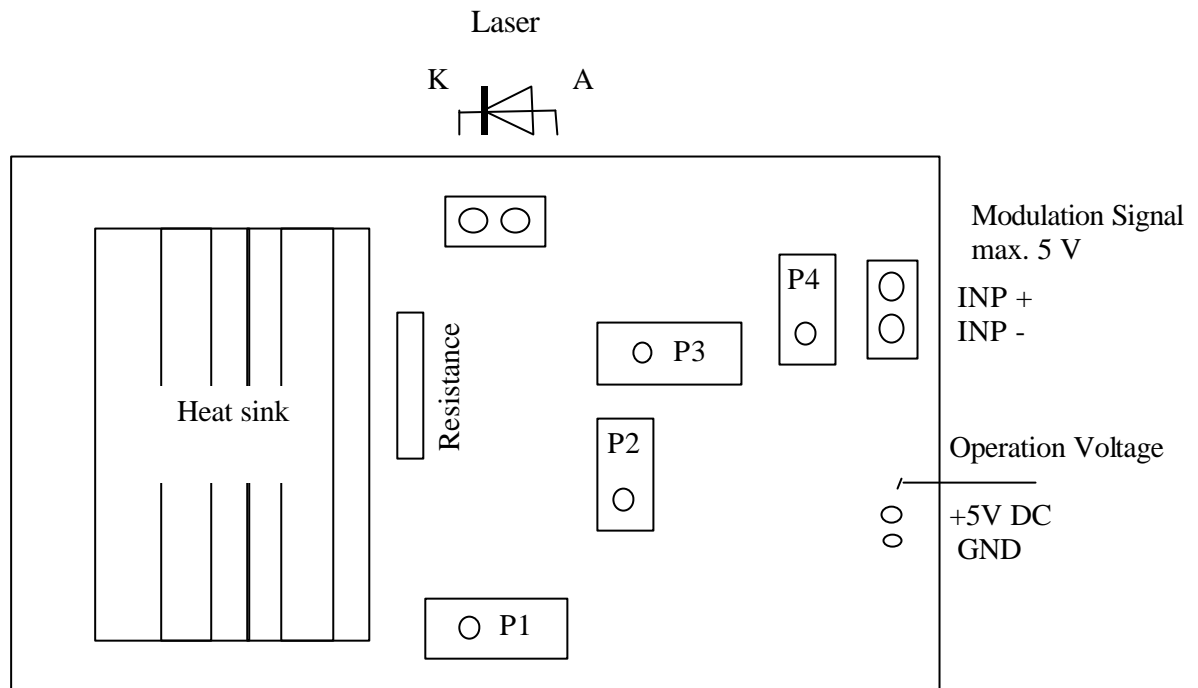


Technical Information DPGL⁰-Power Supply

Version: 5VDC – Analog Modulation Input



P1	Standby current	(close at beginning)
P2	Current through Laser	(close at beginning)
P3	Current limiter	(open at beginning)
P4	analog range control	(open at beginning)

I_{out} (max):	300mA – 1500mA
V_{out} :	approx. 1.5V
$V_{in}(DC)$:modulation	0-5V
$V_{in}(DC)$:	5V
Ambient temperature:	+15°C - +25°C

Resistor Value in this setup: 3,3 Ohms

Tuning (factory pre-adjusted) :

Only use dummy diodes for tuning, as wrongly adjusted settings might damage the laser diode. Setup the standby current to approx 200mA. (Standby current when modulation input = 0V, $U=R*I$). Connect a voltage of 3,5VDC to the modulation input for the following setup: Adjust (P2) so that the voltage over the resistance, considering the relation $U=R*I$, equals R times the current you require. Example: $R = 0.82\Omega$, required current is 1500mA. Adjust P1 so that $U = 1230$ mV. Next, limit the current through the laser with the current limiter, so that the current is just about to decrease. Adjust P4 the same way as P3. Fine-tune the standby current (with modulation input = 0V) and double-check all other currents. Then disconnect the dummy diode and connect your laser diode. Haven fun !

Note: All Driver Boards are pre-tuned and the setting secured. De-tuning will void warranty of the laser