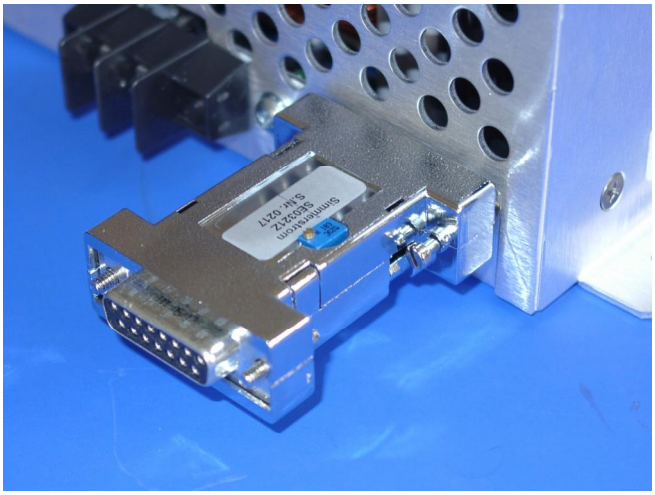
Simmer Current Module



Main Features

- adjustment of a simmer current
- adjustable 0 – 20 %
- pulse function extension for the LDD - series
- module for Lumina Power LDD/LDY series

General Description

The simmer current module is an module for the Lumina LDD 100–4000W and LDY 600-1500W series.

The module's use is to adjust a simmer current for laser diodes. The adjustable area for the simmer current is 0 – 20 % of the laser driver's output current. For example, if the module is used together with a 50 A laser driver, the simmer current is adjustable from 0 – 10 A . The simmer current is adjusted by a 10 turn potentiometer. Additionally, the simmer current module extends the LDD series with the pulse function which is known from the LDY series. Due to its construction method it is possible to upgrade already consisting equipment without great effort.

Technical Detail

adjustable area	0 – 20 %
max. pulse frequency	1 kHz (depending on the laser driver)
surroundings temperature	0° bis +50 °C
measurements	60 mm x 42 mm x 16 mm (HxBxT)

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Interface Details

Pin #	Name	Function	Description
1	Enable (input)	High = RUN (5 – 15 V) Low = OFF (0 V)	The enable input switches-on the output of the power supply. Time delay 25 msec
3	Interlock (input)	Open = OFF connected ground = RUN	Interlock
4	Ground		Ground for programmer and monitor signals
5	Vout Monitor (output)	0 – 10 V = 0 – Vout max	Monitor signal of the output current
6	Iout Monitor (output)	0 – 10 V = 0 – Iout max	Monitor signal of the output current
7	Iprogram (input)	0 – 10 V = 0 – Iout max	Programmer input for the output current
8	Pulsecontrol (input)	TTL High = ON TTL Low = OFF	Switch between Iprogram and the manually adjusted simmer current.
9	Ground		Ground for programmer and monitor signals
15	Ground		Ground for programmer and monitor signals

Note: The monitor signals, enable and interlock are connected 1:1.
The auxiliary power at the programmer connector is available. We recommend to use the aux. power on simmer current module only up to 250mA, for LDD100 up to 10mA.

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