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LASER LAB SOURCE

marketplace for **Scientists & Engineers**

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FEATURES

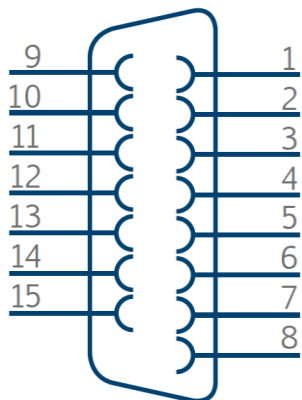
- CW / QCW laser diode driver up to 100 Amps at 500 Watts
- Voltage output 1,5V ... 7,5V
- Configurable voltage and current versions
- Digital or analog interface galvanic isolated
- Overload protection
- Temperature-controlled fan
- QCW mode by pulse control pin
- Customized solutions possible



PARAMETERS

	1 Channel laser diode driver
Current output	0 ... 100 Amps
Nominal voltage output	5V
Voltage output	1,5V ... 7,5V
Accuracy	<0,5%
Stability	<0.1%
Current ripple	< 0,5% @ full load (BW=20Hz)
Trigger rise / fall time	250µs
Protection circuits	Overcurrent / overvoltage / overtemperature
	Common data
Input voltage	90 ... 265Vac (Derating < 120Vac)
Maximum power consumption	595 Watts
Power output	500 Watts
Cooling system	Air cooling
Dimensions [mm]	185x130x70 (Length x Width x Height)
Weight	1,35kg
Location of use	Only for inside use
Protection class	II
Degree of protection	IP 20
Radio interference suppression	DIN EN 55011 class A
Noise immunity	EN 61000-6-2 (industrial environment)
UL certification	UL-listed components
Environmental conditions:	
Temperature range:	
Operation:	10 ... 40 °C
Storage:	-10 ... 60 °C
Relative Humidity:	
Operation:	≤ 80 % (non-condensing)
Storage:	≤ 99 % (non-condensing)
Vertical height of use:	
Operation:	3000 m
Storage:	12000 m

INTERFACE



PIN	FUNCTION	SPECIFICATION AND REMARKS
1	Enable	TTL = HIGH
2	n.c.	
3	Interlock	(connect to GND)
4	GND	
5	V-Monitor*	
6	I-Monitor*	
7	I-Programm*	
8	Pulse control	
9	GND	
10	Output status	
11	Overcurrent indicator	
12	Overvoltage indicator	
13	TXD	
14	RXD	
15	GND	

*analogue interface only

MECHANICAL DRAWING

All dimensions are in mm

