

LDPS1000

Laser Diode Power Supply



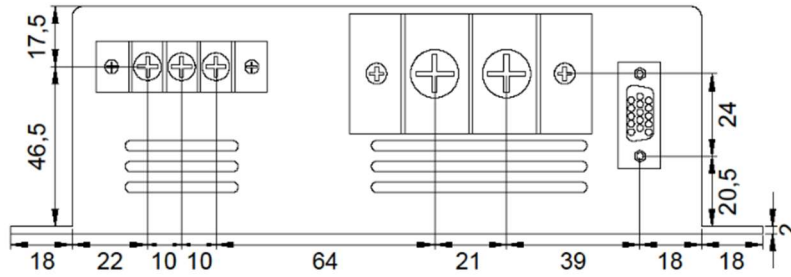
- Up to 1000 W laser diode power supply
- Up to 200 A laser diode current
- Up to 60 V laser diode voltage
- Interlock function
- D-SUB connector
- Analogue controlled
- Air cooled

Parameter	Unit	Value
Specification		
Max. Power Laser Diode	W	1000
Max. Laser Diode Current	A	17 22 29 44 70 88 200
Max. Laser Diode Voltage	V	60 48 36 24 15 12 5
Current Limit Range	A	0 ... Max. Laser Diode Current
Ripple/Noise (rms)	mA	200
Temperature Coefficient	ppm/°C	<100
Short Term Stability (1 hr)	ppm	< 30
Long Term Stability (24 hr)	ppm	< 75
Repetition Rate	Hz	0 ... 100
Rise- / Fall- Time (*)	ms	< 3 (10 % – 90 % of Max. Current)
Analog Modulation		
Input Voltage		0 ... 10 V, 1 kΩ
Transfer Function		0 ...10 V refers to 0 ... Max. Current
Bandwidth	Hz	0 ... 100
Power Monitor		
Output Voltage	V	0 ... 10
Transfer Function		0 ...10 V refers to 0 ... Max. Voltage
Power Supply		
Line Voltage	V	85 - 264 AC, Auto Ranging
Frequency	Hz	50 - 60
Power Consumption	W	800
General Characteristics		
Ambient Temperature, Operating	°C	0 ... 30
Relative Humidity, Operating	%	30 ... 70
Weight	kg	5
Dimensions	mm ³	220 x 66 x 348 (W x H x D)

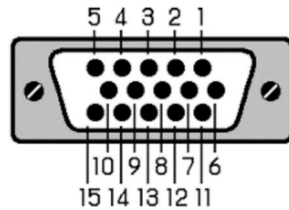
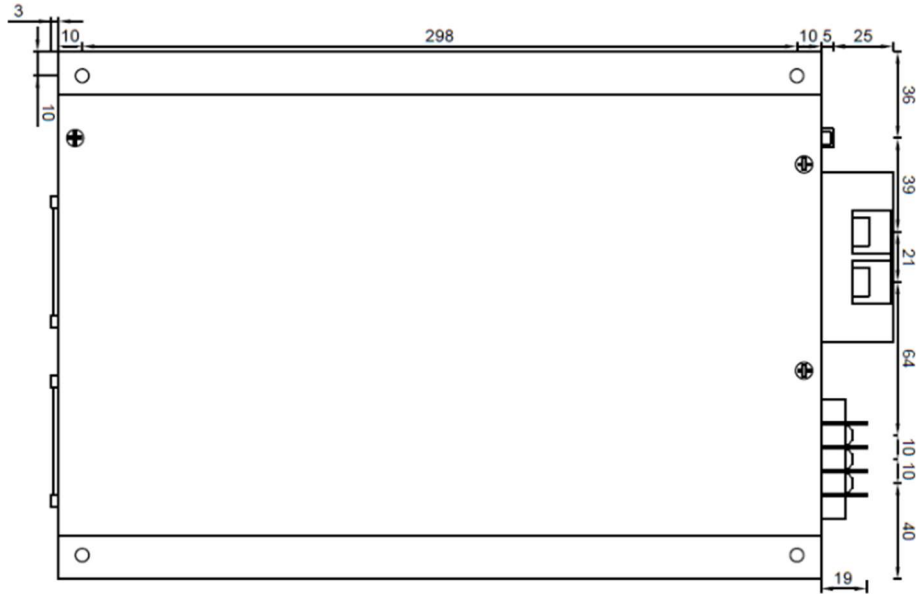
Notes:

(*) The rise time, the fall time and the pulse width may be prolonged by long cables between the power supply and the laser diode.

Front View:



Top View:



D-Sub female 15 pol:

Pin	Signal
1	Enable (IN)
3	Interlock (IN)
5	V _{OUT} Monitor (OUT)
6	I _{OUT} Monitor (OUT)
7	I _{PROGRAM} (IN)
2, 8, 10 - 14	n.c.
4, 9, 15	GND

