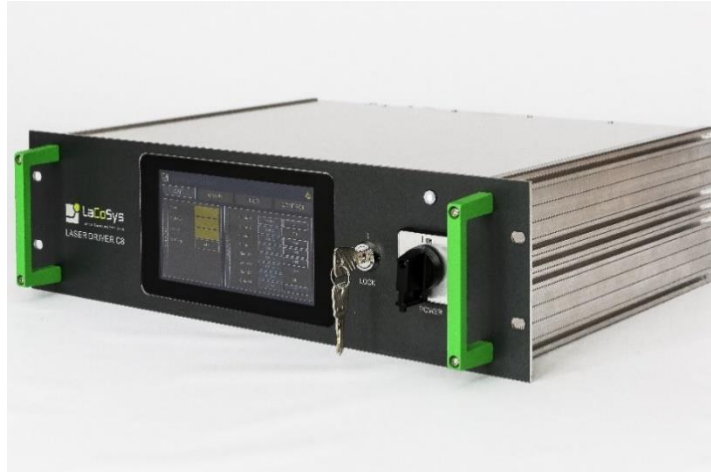


## FEATURES:

- 19" standard rack mount
- Easy to use 7" touch panel
- Key switch and interlock
- Safety circuit according to EN ISO 13849-1 and SIL CL 3 according to IEC 62061
- Low noise
- Up to 4.8kW of total power output
- 45 Amps per channel
- Configurable voltage and current versions
- Optional RS-232 and Ethernet interfaces
- Water cooling system
- Customized solutions possible



## PARAMETERS:

Parameter	4 Channel laser diode driver	8 Channel laser diode driver
Power output	2,4 kW	4,8kW
Current output per channel	Up to 60 Amps	
Voltage output per channel	Up to 50V	
Available power output per channel	600 Watts	
Control accuracy	<0,5%	
Stability	<0,1%	
Current ripple	< 0,05% @ full load (BW=20Hz)	
Trigger rise / fall time	< 5ms	
Protection circuits	Overcurrent / overvoltage / overtemperature	
Parameter	Common data	
Voltage input	208 ... 400Vac Y	
Maximum power consumption	2,8 kW	5,6 kW
Efficiency	> 83%	
Cooling system	Water or air cooling	Water cooling
Dimensions [mm]	602x483x132 (Length x Width x Height)	
Weight	30kg	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)	
Environmental conditions:		
Temperature range	Operation Storage	10 ... 40 °C (non-condensing) -10 ... 60 °C
Relative humidity	Operation Storage	≤ 80 % (non-condensing) ≤ 99 % (non-condensing)
Vertical height of use	Operation Storage	3000 m 12000 m

## Connectors:

### Water cooling

Connector:	KSG 18 NW7 BA
Minimum flow rate:	2l/min
Maximum flow rate:	10l/min
Coolant:	Regular clean tap water

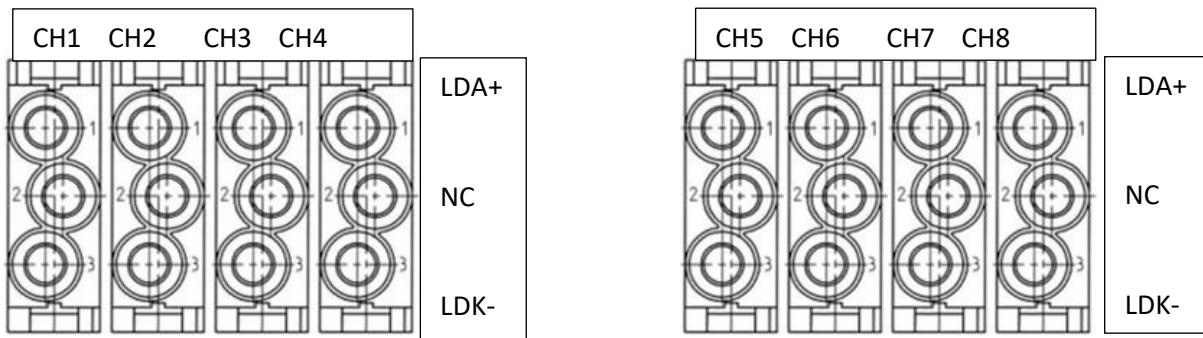
### Power input

Connector:	WIELAND RST 2015G
Voltage:	208 - 400Vac Y
Power draw:	max. 20A

### Output

Connector:	LAPP EPIC® H-B 16 AG
Voltage per channel:	1 ... 15V
Current per channel:	0 ... 45 Amps

The channels are laid out as follows:



### Emission light

Connector:	LUM KFV 50
PIN 1:	Red (24Vdc max 100mA)
PIN 2:	Green (24Vdc max 100mA)
PIN 3:	Yellow (24Vdc max 100mA)
PIN 4:	GND

### User interface:

Connector:	D-SUB D-9
PIN 1:	Contact status (dry contact)
PIN 2:	n.c.
PIN 3:	n.c.
PIN 4:	Contact status (dry contact)
PIN 5:	LASER ON GND (galvanic isolated)
PIN 6:	n.c.
PIN 7:	Remote shut down (connect to 8 with dry contact)
PIN 8:	Remote shut down (connect to 7 with dry contact)
PIN 9:	LASER ON Output TTL 5V (galvanic isolated)

### Optional RS-232

Connector:	D-SUB D-9
------------	-----------

### Optional Ethernet

Connector:	Standard RJ-45
------------	----------------

## FRONT SIDE



- 1 Control display
- 2 Keylock
- 3 System power-ON indication LED
- 4 Power switch

## REAR SIDE



- |                          |                        |
|--------------------------|------------------------|
| 1 Optional water cooling | 6 Power supply         |
| 2 Circuit breakers       | 7 Optional RS-232      |
| 3 Service interface      | 8 Optional Ethernet    |
| 4 User interface         | 9 Emission light (EMI) |
| 5 Protective earth       | 10 Power output        |

**CONTACT:**

LaCoSys GmbH  
Ernst-Ruska-Ring 17  
D-07745 Jena  
Tel.: +49 3641 22 41 51 4  
[mail@lacosys.com](mailto:mail@lacosys.com)  
[www.lacosys.com](http://www.lacosys.com)  
[linkedin.com/company/lacosys-gmbh](https://www.linkedin.com/company/lacosys-gmbh)