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**LASER LAB SOURCE**

marketplace for **Scientists & Engineers**

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800-887-5065



**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**

		<b>8 Channel laser diode driver</b>
Current output per channel		0 ... 45 Amps
Voltage output per channel		4,5 ... 15V
Available power output per channel		600 Watts
Accuracy		<0,5%
Stability		<0,1%
Current ripple		< 0,05% @ full load (BW=20Hz)
Trigger rise / fall time		< 5ms
Protection circuits		Overcurrent / overvoltage / overtemperature
		<b>Common data</b>
Voltage input		208 ... 400Vac Y
Maximum power consumption		5,6 kW
Power output		4,8 kW
Cooling system		Water
Dimensions [mm]		602x483x132 (Length x Width x Height)
Weight		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		10 ... 40 °C (non-condensing)
	Operation	-10 ... 60 °C
	Storage	
Relative humidity		≤ 80 % (non-condensing)
	Operation	≤ 99 % (non-condensing)
	Storage	
Vertical height of use		3000 m
	Operation	12000 m
	Storage	



**Connectors**

**Water cooling**

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

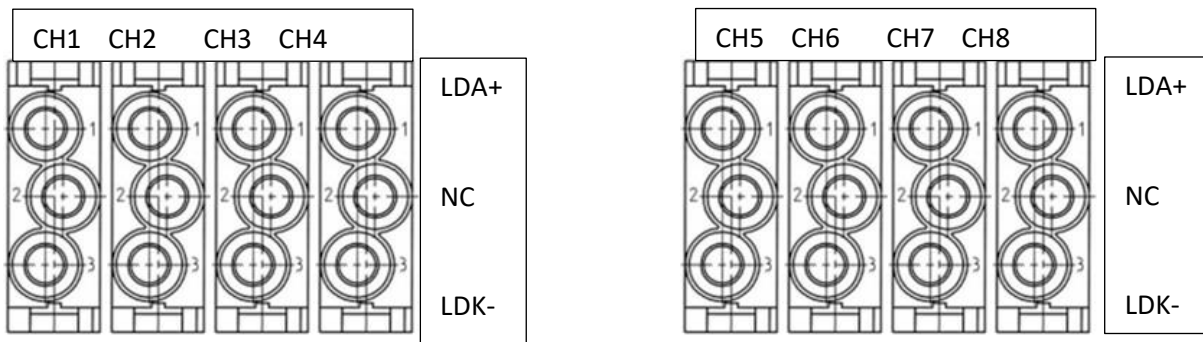
**Power input**

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:	Contacteur status (dry contact)
PIN 2:	n.c.
PIN 3:	n.c.
PIN 4:	Contacteur 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
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**Optional Ethernet**

Connector:	Standard RJ-45
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**SmartPower L4800-45C8LN**

### FRONT SIDE



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

### REAR SIDE



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

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