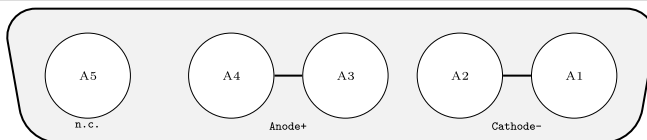


Type: ls11-la64v24-t19203c-v4-532



Laser max.: 64A, 24V  
trise, tfall < 30µs  
supply voltage: 100~230VAC – 50/60Hz  
– External, Internal, Analog and Digital Modulation  
– Current Monitor  
– Bias Current option  
– Pilot Laser Supply  
– External Fan Support  
– optional additional TEC-stages

## Laser Connector

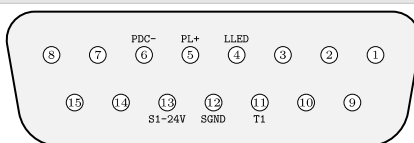


SubD-5W5 female

PIN.No	Abbr.	Function
A3; A4	LDA+	Laser Diode Anode (+)
A1; A2	LDC-	Laser Diode Cathode (-)
A5	n.c.	

RS232 Connector	MOD-IN Connector	MOD-OUT Connector	Interlock Connector
<p>BNC-Socket, TTL- 0-2,0V → low, 2,5V-5,0V → high</p>	<p>BNC-Socket Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Mod. 0-4[V] =&gt; 0-Imax[A]</p>	<p>BNC-Socket, current monitor 0-Imax[A] → 0-4[V] Take care for laser isolation if you connect GND potential to an oscilloscope f.e.</p>	<p>Jack Connector 3.5mm Laser runs only if closed (ca. 5mA over 2V → R ≤ 400R)</p>

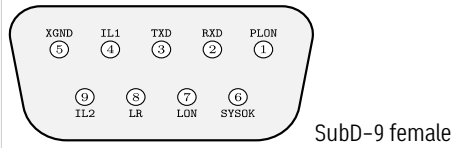
## Support Connector



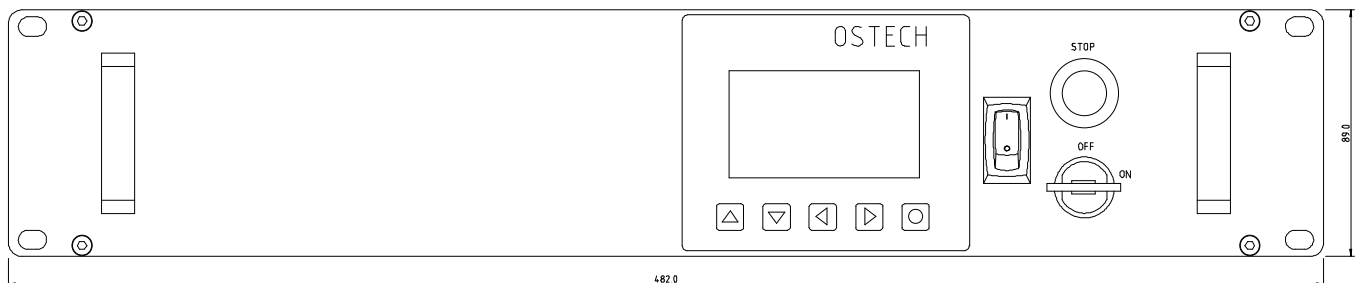
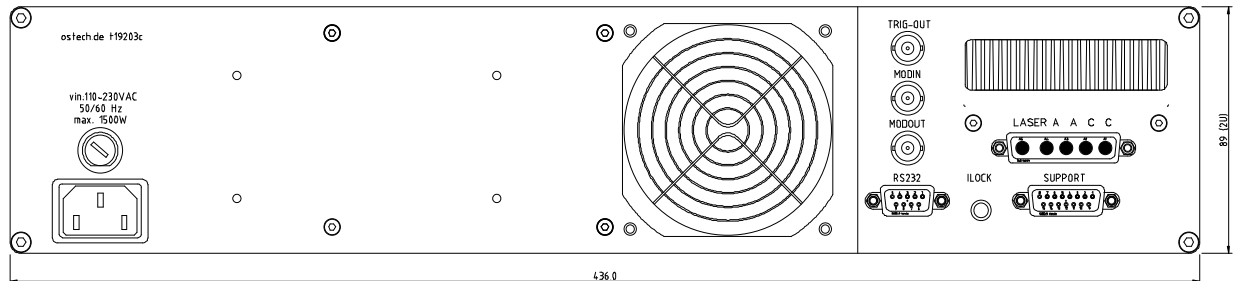
SubD-15 female

PIN.No	Abbr.	Function
4	LED	Laser-RUN LED
5	PL+	Pilot Laser+, vs. GND
6	PDC-	Photo-Diode Cathode, vs. GND
11	T1	Temperature Sensor Input, default ntc10kΩ, vs. GND
12	GND	Common Ground
13	S1..24V	1..24V Supply, max. 800mA, support for fan etc., vs. GND

## Control and RS232 (isolated Interface)



PIN.No	Abbr.	Function
1	PLON	Pilot Laser ON if TTL-High
2	RXD	RS232 RX
3	TXD	RS232 TX
4	IL1	Interlock 1 has to be closed to XGND
5	XGND	External GND
6	SYSOK	System OK output +5V over 4k7
7	LON	Laser ON (ready signal) TTL High
8	LR	Laser Run (start signal) TTL High
9	IL2	Interlock 2 has to be closed to XGND



## Revision overview:

2020-10-28: "v2" - new housing configuration for ae1500 as well as added MODOUT connector  
 2024-01-01: "v3" - new Laser Connector and removal of the industrial interface  
 2024-10-11: "v4" - new housing code and ds01xx board

## References:

<http://www.ostech.de/en/products/laser-drivers/ds11-t192>  
<http://www.ostech.de/en/downloads/manuals/ds-en.pdf>  
<http://www.ostech.de/en/downloads/labview>

## Accessories

- acc-converter-usb-to-rs232-1m5-iso-417  
RS232 to USB converter optical isolated with FTDI-Chip cable 1.5m
- kab-la60-2pol-M4RL-oe-1.5m-1101  
cable 2x6qmm to open ends length 1m5