



## Power Supply for OEM Devices 24 VDC Output, Up to 280 Watts



### **24 VDC Power Supply** **part number: nt-587**

- o Plug and Play Power Supply for OEM Laser Diode Controllers
- o Intuitive and Simple Configuration
- o In-Line On/Off Switch
- o Modulation and Interlock Connectors
- o Built-In Protection Circuits



**LASER  
DIODE  
CONTROLLERS**





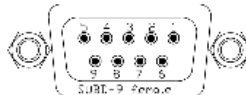
## RLS / nt-587 Power Supply for OEM-Style Controllers

The RLS / nt-587 power supply is a preconfigured, easy-to-use solution for the OEM-style laser diode drivers and temperature controllers. It includes features to make deployment quick and intuitive: an on-off switch located in the 9-pin d-Sub connector housing; a modulation input cable; and the safety interlock connector. The power supply includes built-in safety features to protect the power supply and to help prevent harmful operating conditions for the laser diode or temperature controller.

The RLS / nt-587 interfaces directly with the OEM-style laser diode drivers, controllers, and temperature controller modules.



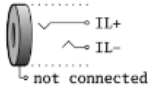
**Power and Support Connector**



Sub-D 9, female Type  
On / Off switch at connector housing


PIN.No	Abbr.	Function
4,5	SUP+	Power Supply typ. +24V DC
8,9	SUP0	Power Supply typ. 0V DC
7	ILOCK+	ca. 5mA over 2V
2	ILOCK-	Laser runs only on closed Interlock
6	MOD+	Digital and Analog Modulation Input; positiv Pin
1	MOD-	Digital and Analog Modulation Input; negativ Pin
3		n.c.

**Interlock Connector**



Jack Connector Stereo 3.5mm / Interlock - Laser can only run if Interlock is closed;  
(ca. 5mA over 2V → R<sub>load</sub> ≤ 400Ω)  
connect ILOCK- and ILOCK+ pin  
Warning: do not connect (SCR) common screen pin

**AMOD/DMOD Connector - External Analog And Digital Modulation Input**



BNC Type, Input-Impedanz 10kOhm  
Digital & Analog Modulation with TTL-Pegel

### GENERAL FEATURES AND SPECIFICATIONS

- Includes On / Off Switch on Connector for Main Power ON/OFF and Status LED
- Includes Wire and Connector for Connecting an External Safety Interlock Circuit
- Includes Wire and BNC Connector for Modulation Signal Input to Laser Diode Driver
- Standard 3-Pole AC Inlet IEC320-C14 Class I (with earth pin)
- Protection Features: Short Circuit / Overload
- Protection Features: Over Voltage / Over Temperature
- Single 9-Pin D-Sub Connects nt-587 into Laser Diode Driver or TEC Controller Module
- Voltage Input: 90 - 230 VAC
- Voltage Output: 24 VDC
- Max. Power Output: 280 Watt
- No-Load Power Consumption: < 0.5 W
- Dimension: 220 mm x 95 mm x 46 mm



## Product Sales and Service

Orders for this product are fulfilled by LaserDiodeControl.com, part of the Laser Lab Source group. It is manufactured for Laser Lab Source by OsTech, GmbH.

## Product Warranty

This product is sold with a full one-year warranty. It is warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment.



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