9V Linear Supply

LDS9

Description

Thorlabs LDS9 is a 9 Volt Linear Regulated Power Supply with ripple voltage of less than 10 mV RMS. The power supply is specifically for use with our OEM Laser Diode Controller and battery charger for our detectors. The LDS9 features include Current Limit for short circuit and overload protection, On/Off switch with LED indicator, and switchable AC input voltage (115 or 230 VAC).

Specifications

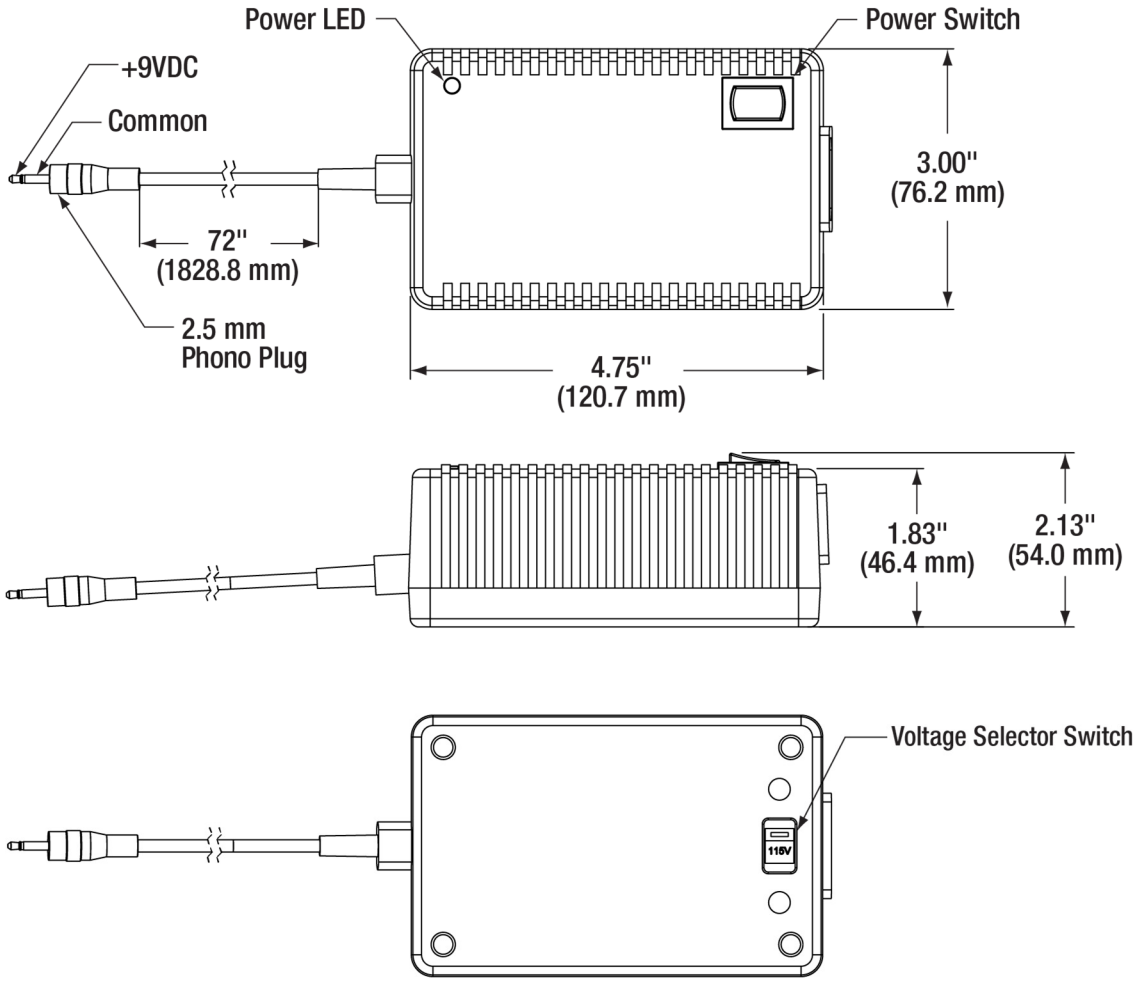
Electrical Specification	
DC Output	9 VDC
Output Current*	220 mA
Input Voltage*	105 - 132 / 200 – 264 VAC
Input Power	11 VA
Maximum Ripple	10 mV RMS
Combined Regulation	±5%

***Note:** The supply may be used with the mains Voltage in Mainland Japan (100 VAC nominal). Japanese users should note that the power supply is rated for load current of 190 mA.

Safety Specifications	
Fuse	Thermal Fuse and 250 mA Slow Blow Type
Indicator	LED with On/Off Switch
Operating Temperature	0 to 40°C

Other Specifications	
Dimensions (L x W x H)	4.75" x 3.0" x 1.83"
Output Connector	Male: 2.5 mm, Tip (+)
Input Configuration	IEC 320

Drawing


Power LED
Power Switch
+9VDC
Common
72"
(1828.8 mm)
2.5 mm
Phono Plug
3.00"
(76.2 mm)
4.75"
(120.7 mm)
1.83"
(46.4 mm)
2.13"
(54.0 mm)
Voltage Selector Switch
115V

Precautions

WARNING: The LDS9 operates from AC voltages which are potentially harmful and could cause death. Turn the LDS9 power switch OFF and UNPLUG the AC line BEFORE attempting to perform any of the operations below.

To help prevent electric shock, plug the DUT and LDS9 power cable into properly grounded electrical outlets. These cables are equipped with 3-prong plugs to help ensure proper grounding. Do not remove the grounding prong from the cable. If you must use an extension cable, use a 3-wire cable with properly grounded plugs.

Make sure to connect the 2.5 mm Connector to the DUT before turning on the unit to avoid shorting issue and possibly damaging the LDS9 and DUT.

Setting the LDS9 AC Line Voltage:

The operating AC voltage is indicated by the value shown in the small red voltage selector switch window located on the bottom side of the unit. The LDS9 systems are shipped with this set to 115VAC. If this needs to be changed, follow the instructions below and heed the safety warnings mentioned above:

a. Remove the AC line cord from the LDS9.
b. Using a Flat Head Screwdriver, slide the voltage selector switch to the right for 230 VAC.
c. Verify the correct voltage is shown on the switch. If not, please repeat above steps.
d. To set the switch back to 115 VAC, slide the switch back to the left with a Flat Head Screwdriver.

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2. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system or to affect its safety or effectiveness.

3. The Thorlabs products described in this document are not intended nor warranted for usage in Military Applications.