



Introductions

The **LS series** is a compact and cost-effective pulse generator designed for laser supply within nanosecond-range applications. Its primary application involves driving pulsed laser diodes, which can be directly mounted onto the **LS series** without requiring strip lines. The diodes must be electrically isolated from the ground (chassis). Compatible packages include TO-18, TO-5, TO-52, 5.6 mm, 9 mm, and similar form factors.

Product Features

Despite its small size, the **LS_50** eliminates the need for multiple peripheral power units. It operates using only a single 15V DC power supply and a trigger signal, ensuring ease of use and streamlined integration.

CE/Safety Agency Approvals

IEC 60601-1-2 4th Edition EMC
IEC 60601-1 3rd Edition Safety
IECEE CB SCHEME

Power Supply Parameters

Pulse Output Current	≤ 50 A
Max. output voltage (Boost):	≤ 100 V (Dependent on laser diode)
Programmable Pulse Width	10ns to 5 μ s
Duty Cycle	$\leq 4\%$ (CW ≥ 5 W, Dependent on heat dissipation)
Pulse Rise Time	3 ns (≤ 5 ns)
Repetition Frequency	Up to 2 MHz
Input Voltage	15V DC(typical)
Operating temperature	-40°C to 85°C
Protection functions	Current, temperature, and voltage monitoring
Dimensions in mm	70×45×20

Applications

- LiDAR (Light Detection and Ranging)
- Measurement
- Ignition
- Ranging