

MODULAR LABORATORY POWER SUPPLY SYSTEM

LPS 150 SERIES

- Adjustable outputs 0-30VDC or 0-60VDC
- Current and Volt meters
- Custom output ranges available
- Adjustable current limits
- Adjustable voltage limiting
- 150W regulated output power per module
- Full electronic protection
- Field-proven design topology
- Fixed output modules also available



The LPS 150 power supply system was designed for laboratory and industrial applications. Each LPS 150 plug-in module functions as a completely independent power supply. Any combination of up to 4 modules can be assembled in a 19" shelf. Cases for triple, double and single versions are available. The system allows for user configuration depending on application requirements and the pluggable nature of this power supply enables module replacement or re-configuration within seconds.

Each LPS 150 module has two analog panel meters: one for output voltage, the other for current monitoring. The output voltage adjustment potentiometer, the current and voltage limit controls, an ON/OFF switch for the AC-input, power-ON indicator LED, and banana sockets for the output are located on the front-panel. The 19" shelf version also has a main ON/OFF switch for the entire system.



The outputs are fully isolated, and several modules can be connected in series to achieve higher output voltages up to 240V within one shelf.

The LPS 150 system meets the highest electrical performance requirements. The design features high efficiency, low output noise, and full protection. High quality components and potentiometers ensure a long operating life. The basic design of this rugged power supply has an impressive track record and these units have been used in the Absopulse plant for testing and burn-in for many years.

SPECIFICATIONS

Input Voltage

95V - 264V universal
47-440Hz

Input Protection

Thermal fuse (internal)
Inrush current limiting

Input Isolation

2250VDC input to chassis
4300VDC input to output,
8mm spacing
500VDC output to chassis

Full compliance to IEC950, CSA
22-2-950 and UL 1950

Max Output Voltages/Output Current Per Module

LPS 150-30 : 0 - 30VDC/5A
LPS 150-60 : 0 - 60VDC/2.5A
Consult factory for other voltage ranges, or fixed output modules.

Line/Load Regulation

+/-1% combined

Overload Protection

Current limiting with short circuit protection.

Front-panel adjustments:

Output voltage adjustment range:
0 - 30 or 0 - 60V
Output current limit: 0 - max

Output voltage limit: 0 - max

Efficiency

Min 80% at full load

EMI

Meets requirements of
EN55022 Class B

Output Ripple/Noise

Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20HZ BW)

Operating Temperature

0 to +50°C

Temperature Drift

0.03% per °C over operating temperature range

Dimensions

Plug-in module:
3U x 18HP x 280mm
(5.25"x3.6" x 11")

Shelves available

(number of plug in modules):
3U x 7.4" x 13" (single & double)
3U x 19" x 13" (triple & quadruple)

Connections:

Input: Standard IEC 320 connector.
Output: banana sockets

Warranty: twelve months subject to application within good engineering practice
Enhancements to these general specifications and customizing can be accommodated upon request
Designed to meet all approval requirements. Specifications subject to change.

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard.

Absopulse is a BABT-approved Facility

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