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# L-301-MKII

## RF GENERATOR

CE Marked, NRTL Listed

Air Cooled, Half Rack Design

Analog / Serial: RS232/485,

INTERNAL DC SWITCHER

HIGH SPEED PULSING

AGILE FREQUENCY TUNING

Optional Step UP/Down Transformers and Matching Networks Available




SEREN Industrial Power Systems

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## PRODUCT DESCRIPTION

The Seren L301 is a Microprocessor controlled, Solid State, 300 Watt, RF generator. The L301 is available at 100-460, 350 - 460 kHz. The L301 can be used as the sole source for plasma generation, as a Bias generator, or as one of several generators in a multiple generator configuration. The front panel controls and indicators are logically grouped, with operational status shown on the front panel four line fluorescent display.

Seren "L Series" products incorporate a single Microprocessor Control surface mount technology printed circuit board for controls and RF amplifier. Seren "L Series" products utilize Field-Effect Transistors in the exciter and power amplifier stages powered by a DC Switch Mode power supply, operating in class AB mode providing power accuracy and stability across the entire power range.

## RATING

. The L301's power amplifier is rated at 50% of its actual design capability.

## PROTECTION

Seren generators are protected against excessive Voltage Standing Wave Ratio (VSWR) conditions by limiting reflected power, power amplifier current, and power amplifier transistor dissipation.

## AGENCY COMPLIANCE

CE:EN61326-1, EN61000-6-4, EN61010-1
NRTL: UL61010-1, CAN/CSA C22.2
SEMI: S2, S8, S47
FCC Part 15, Part 18.

## CONTROL INTERFACES

The L301 is a microprocessor controlled, solid-state RF generator. This product can be controlled by: (1) a selectable serial RS-232/ 422/ 485 interface, (2) a 25 pin D-sub analog interface connector, (3) the front panel or (4) Optional Interfaces' such as Device Net, Profibus, Ether Net.

## POWER CONTROLS

The Seren L301 can regulate its power output utilizing the following control modes: DC Voltage, RF Voltage, Forward Power Leveling, and Load Power Leveling.

The L301 is capable of 2 modes of high speed pulsing: programmable pulsing via the front panel (rate and duty cycle); and analog pulsing, where the generator tracks an incoming pulse train.

The L301 agile frequency-tuning feature can be controlled either internally or by an external control signal.

## WARRANTY

Seren products are warranted against defect for a period of (15) months from date of shipment.

## SERVICE

Seren IPS products are supported by a World-Wide Network of qualified service engineers. Consult our web page for locations in your area.

| MODEL | L-301-MKII |
|---|---|
| Forward Power Output | 300 Watts |
| Frequency | 350 - 460, 100 - 460 kHz |
| Forward Power Accuracy | +/- 2% |
| Harmonics | -50 dBc |
| Input Power | 95-125 VAC or 190-264 VAC, 47-63 Hz |
| Output Connector | Type "N or HN" Female |
| Interface Connectors | Serial: DB-9 Female; Analog: DB-25 Female |
| Pulsing | Consult Factory |
| Cooling | Forced Air, 110 CFM (52L/Sec.) |
| Dimensions | 5.25" H x 9.5" W x 19" D (18 X 43.5 X 58.5 cm) |
| Weight | 27 lbs. |

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