ENI (ELECTRONIC NAVIGATION INDUSTRIES)

1140LA

The ENI 1140LA is a robust solid-state RF power amplifier designed for high-power laboratory and industrial applications. Operating over a frequency range of 9 kHz to 250 kHz, it delivers a nominal output of 1100 Watts with 55 dB of gain. Featuring Class B operation, a built-in analog power meter, and forced-air cooling, it is engineered to withstand severe load mismatches (any VSWR) without damage.

SPECIFICATIONS

General

Interfaces	Analog Remote Control (25-pin D-sub), External AGC (BNC)
Display	Front panel analog power meter

Physical

Power Supply	115 / 230 VAC (selectable), 50/60 Hz, 3000 W (typical)
Operating Temperature	0 to 40 °C °C
Dimensions (W×H×D)	483 mm × 267 mm × 559 mm mm
Weight	41 kg

RF Performance Specifications

Minimum Frequency	9 kHz
Maximum Frequency	250 kHz
Frequency Range	9 kHz - 250 kHz
Nominal Output Power	1100 W
Nominal Gain	55 dB
Gain Flatness	±1.5 dB
Amplifier Class	Class AB

Port Characteristics

Input Impedance	50 Ω
Output Impedance	50 Ω

Protection & Ruggedness

Reflected Power Tolerance (VSWR Protection)	Withstands any load mismatch (infinite VSWR) without damage

Control, Monitoring & Interfaces

Load Power Measurement	Measures forward and load-absorbed power

Physical Characteristics

Form Factor	Benchtop (rack-mountable with kit)
Cooling Mechanism	Forced air cooling

Inputs & Outputs

RF Input Connector	BNC Female
RF Output Connector	N-type Female

Performance

Harmonic Distortion	<-25 dBc at 400 W output
Spurious Emissions	<-60 dBc
Input VSWR	<1.5:1

Indicators & Controls

Power Metering	Front panel analog meter displaying switchable forward or load-absorbed power

Protection

Output Protection	Withstands any load VSWR including open or short circuit without damage

TECHNOLOGY

Solid-State Power Amplifier

APPLICATIONS

RF testing, induction heating, ultrasonic transducer excitation, and plasma generation

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.