

EAC-I

3kVA DUAL RANGE AC SOURCE



POSITIVE PROBLEM SOLVING **+ =**

The EAC-I is a highly versatile single phase AC power supply. In-built pulse width modulation technology allows for systems to be built into a lightweight 3U rackmounting case.

The system features two current and voltage ranges which are user selectable by the simple switch of a button. This wide output range makes the EAC-I ideal for a wide range of military, aerospace and power conversion test applications. Full control of the unit is provided by simple front panel operation as standard. For remote control the system has isolated analogue, IEEE488.2 (GPIB), USB, LAN and RS-232 interfaces.

- + Wide Single Phase Input Range as Standard
- + Various Remote Control Interfaces Available
- + User Selectable Output Voltage Range
- + Lightweight and Compact Design
- + CV Mode for Voltage Limiting

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FURTHER DETAILS

The standard wide single phase input provides a typical input power factor of 0.99, allowing the EAC-I to operate under varying grid conditions found within most countries worldwide.

The system features a graphical display with an extensive set of measurement functions. This includes effective, apparent and idle power along with voltage, average and peak current values. Power factor and crest factor values are also displayed.

SELECTION TABLE

Part Number	Max Power	Output Voltage [Range 1 / Range 2]	Output Current [Range 1 / Range 2]	Dimensions [W × H × D]
EAC-I 3000	3kVA	0 - 135 Vrms / 0 - 270 Vrms	0 - 24A / 0 - 12A	19" × 3U × 620mm

TECHNICAL DATA

GENERAL

Dimensions	19" × 3U × 620mm
Weight	39kg
Operating Temperature	0 - 45°C (up to 50°C with derating)
Safety	EN 60950
EMC	EN 55022 class A

INPUT

Voltage (Single Phase)	185-264VAC
Frequency	47 - 63Hz
Power Factor	0.99 typical at full load
Efficiency	85% typical

AC OUTPUT

Power	3kVA [2400W]
Voltage Range 1 & 2	Range 1 : 0-135 Vrms, range 2 : 0 - 270Vrms
Voltage Resolution	0.1V
Voltage Accuracy	1% of F.S.
Frequency	45 to 450Hz
Frequency Resolution	0.01Hz
Frequency Accuracy	0.2% of F.S.
Maximum Current [Range 1]	24A
Maximum Current [Range 2]	12A
Crest Factor	3:1
Distortion	<2% THD at 220VAC, 50Hz
Load Power Factor	0.8 lag to 0.8 lead
Line Regulation	± 0.1%
Load Regulation	± 1%
Efficiency	>85% at nominal input and full load

PROTECTION

Overload / Short Circuit	Output trip and indication
Over Temperature	Output trip and indication
Input Side	Fast acting fuse

CONTROL AND SIGNALS

Input Power ON/OFF	Rocker switch with indicator
Voltage Accuracy	± 2% of F.S. + 1 digit
Voltage Resolution	1V
Current Accuracy	± 2% of F.S. + 1 digit
Current Resolution	0.1A
Power Accuracy	± 5% of F.S. + 1 digit
Power Resolution	1W
Fault Alarm	Common LED alarm for fault conditions (over load and over temperature)
Output Control & Monitoring	Front panel control. Isolated analogue, IEEE488.2 (GPIB), USB, LAN and RS-232 interfaces.
Display	Graphical display featuring values for: average & peak current; voltage; power & crest factor; effective, idle & current power



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