

ESU Analyzer Series

Features - ESU-2300

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- ◆ Measurements via Industry Standard Current Sensing Method
- ◆ Built-In RF Current Transformer (Pearson® Coil)
- ◆ True RMS Readings Using DFA™ Technology
- ◆ Performs Output, RF Leakage & CQM Tests
- ◆ Main Test Loads from 50 to 750 Ohms
- ◆ External Test Loads Supported
- ◆ Auxiliary Test Load – 200 Ohms
- ◆ Independent Variable CQM Test Load – 1 to 500 Ohms
- ◆ Non-Inductive Internal Load Resistors
- ◆ Graphical Display with Backlighting & Simultaneous Details of Parameters & Scrolling Option Control
- ◆ Bright-White Display Backlight
- ◆ Rechargeable Battery or Line Powered Operation
- ◆ Isolated Oscilloscope Output
- ◆ Full Remote Operation
- ◆ USB & RS232 Serial Ports
- ◆ Digital Battery Monitor
- ◆ Flash Programmable, Field Upgradeable
- ◆ Tactile Keys With Audible Feedback

BC Group International, Inc.
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The ESU-2300 Analyzer is for users who prefer a conventional instrument with internal, selectable test loads. Utilizing the same Patent-Pending DFA™ Technology as our new ESU-2050, and ESU-2400, the ESU-2300 uses industry standard current sensing technology rather than relying on less accurate voltage measurement techniques offered by some competitive products.

The ESU-2300 uses advanced ultra-high-speed waveform sampling techniques to accurately analyze even the most complex electro-surgery generator waveforms. You can easily analyze Coag waveforms like Desiccate, Fulgurate or even Spray with the same accuracy as pure sinusoidal Cut waveforms. RMS current (ma) and power (watts) can be easily read from the large LCD graphical display. A whisper quiet fan keeps the internal non-inductive load resistors running cool.

Added features like CQM Testing, RF Leakage Current measurement, a Rechargeable Battery, USB and RS232 com ports, BNC output, universal power supply and the ability to easily update the instrument's firmware in the field via our unique Flash Update Utility Software put the ESU-2300 in a class of its own.

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SPECIFICATIONS

Method	Measurement Industry Standard Current Sensing, using RF Current Transformer (Pearson Coil)	Enclosure	Physical 6.0" x 13.5" x 12.0" High Impact Plastic, UL 94 V-0 Face-Lexan, Back Printed
Range	Power 1.0 to 400.0 Watts RMS	Weight	< 17 lbs (7.7 kg)
Resolution	0.1 Watts	Power Supply	Electrical Kycon 3 position locking connector 9 VDC 3A Output
Accuracy	± 5% Reading or ± 3 Watts (whichever is greater)	Voltage	83 to 264 VAC
Range	Current 20 to 2500 mA RMS	Frequency	47 to 63 Hz
Resolution	1 mA	Battery	Sealed Lead Acid 6 VDC, 7.2 AH
Accuracy	± 2.5% Reading or ± 15 mA	Display	General LCD Graphical 256 x 64 Pixels, Backlight
Bandwidth	Limits 10 kHz to 10 MHz	Ventilation	Internal Fan, variable speed Over temperature protected Fan rotor sensor
Crest Factor	1.4 to 500	Oscilloscope Output	Isolated (uncalibrated), BNC Connector
Voltage	10,000 V Peak	Setup Memory	EEPROM, All Parameters
Main Test Load	Loads	Memory Retention	10 years w/o Power
Range	50 to 750 Ohms	Operating Range	15 to 35 Degrees C
Resolution	50 Ohms	Storage Range	-20 to 60 Degrees C
Accuracy	± 1% (DC)	Humidity Limit	90% Non-Condensing
Duty Cycle	50% (1 minute Period)	Connections	Oscilloscope: BNC Communications USB, DB9 Loads: 4mm safety sockets
Auxiliary Test Load			
Fixed	200 Ohms		
Accuracy	± 1% (DC)		
Rating	225 Watts		
CQM Test Load			
Range	1 to 500 Ohms		
Resolution	1 Ohms		
Accuracy	± 2% or ± 2 Ohms (whichever is greater)		

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**Optional: External Load
Precision Power Resistor**
(Check webstore for a
listing of available values)