Instrument Specifications

Modes of Operation

Line Powered (Battery Charge and Maintenance Charge)

Battery Operation

Offline (Battery Charge and Maintenance Charge)

Displayed Parameters

Power (Watts)

HF Current (milliamperes)

Test Load (ohms)

Test Performed

Generator Output

HF Leakage ..... Performs HF leakage tests to IEC 601 2-2, 1289-2, ANSI/AAMI standards: Type BF Test 1 – Earth referenced monopolar output Type CF/Bipolar – Isolated monopolar or bipolar output

Measurement

Technique ..... Precision high-voltage capacitive attenuator samples applied ESU signal. This directly measured HF voltage and the selected test load resistance value utilized to derive the true-rms values of both current and wattage readings.

HF Power (watts)

Resolution ..... 1 to 400 W / Resolution: 0.1 W

Maximum power input ..... 400 W rms

Accuracy ..... ± 5 % of reading or ± 3 watts, whichever is greater

HF Current

Range ..... 30 to 2500 mA rms, Resolution: 1 mA

Accuracy ..... ± 2.5 % of reading or ± 15 mA, whichever is greater.

Bandwidth/System Response

Bandwidth of rms converter circuit (1 % accuracy)

Flat response ..... 10 kHz to 10 MHz

-3 dB points..... 1 kHz to 20 MHz

System Response (measurement circuitry and selected test load):

-3 dB points..... 1 kHz to 10 MHz @ 300 Ω

Test Load Section

Main Test Load

Selections.....15

Selection range .....50 to 750 Ω

Step size.....50 Ω

Duty Cycle .....50 % @ 400 W (maximum 30 seconds ON during any one-minute period)

Resonance impedance variation..... ± 0.5 dB maximum (<10 MHz)

Accuracy (DC to 500 kHz).....± 4 % of selected value measured at calibration to: ± 1 % (across the entire operating temperature range)

Auxiliary Leakage Test Load Fixed:

200 Ω

Accuracy.....± 4 %

Power rating .....225 W

Input Capacitance (nominal)

Active to dispersive .....30 pF

Active or Dispersive to Earth ground.....40 pF

Battery

Type: Sealed lead-acid

Voltage .....12 volts nominal

Capacity .....2.2 A H

Field serviceable .....No

Typical time between recharges.....2-hour minimum

Battery cycles 200

Recharging .....Instrument has internal, automatic charger that is activated when unit is plugged into wall with power cord. No external charger required.

Auxiliary Contact Quality Monitor

Testing Feature .....The main test load section is used to perform a simple Auxiliary Contact Quality Monitor Testing Feature (CQM) operational check.

Display

Type .....LCD, 7-segment

Display size .....Four full digits

Overall display size .....2.0” x 0.75”

Front-Panel Controls / Pushbuttons

Measurement Select (1)

Load Select:

Increment test load (+) one step

Decrement test load (-) one step

Designations:

Generator output-active (1)

Generator output-dispersive (2)

Auxiliary HF leakage load (2)

Connector type ..... 4-mm (0.160”) diameter safety sockets

Input voltage limit..... 10,000 V peak

Input current limit ..... 3 amperes rms

Installation category..... II

Side Input connection

Designation..... Signal reference

Oscilloscope Output

Transformer coupled output

Scale Factor..... uncalibrated

Connector type ..... BNC

Calibration Period

Calibration recommended every 12 months.

General Specifications

Temperature Range

Operating: ..... 15 to 35 °C

Storage ..... 0 to 50 °C

Humidity Range

90 % non-condensing

Altitude

To 2,000 meters

Ventilation

Internal fan with variable speed control

Over temperature detector

Magnetic tachometer sensor to detect blocked fan motor

Power Requirements

Universal input switching supply (12 V dc output)

Operating Voltages:

Specified.....115 V ac/230 V ac

Maximum range.....83 to 264 V ac

Operating frequencies:

Specified.....50 Hz/60 Hz

Maximum range.....47 to 63 Hz

Maximum input requirement.....60 VA

Fusing

External (user-replaceable)

Quantity 2

250 V, 3.15 A, Type F, L1 and L2

Case construction

High-impact plastic, UL94-V0

Weight

5.6 kg (14.15 lb)

Dimensions

15.24 cm H x 34.24 cm W x 30.48 cm D (6.00 in. H x 13.48 in. W x 12.00 in. D)

Intended Use

Indoor

Installation category II

Pollution degree 2

Portable equipment

Sound levels less than 65 db A