

QUALITROL-IRIS POWER IS THE WORLD'S LARGEST PROVIDER OF MONITORING AND TESTING EQUIPMENT FOR MOTOR AND GENERATOR WINDINGS

Iris Power DCR 60-2™

DC Ramp Test Set

RAMPED HIGH VOLTAGE DC TEST FOR STATOR WINDING INSULATION

- Simple off-line test
- Lower risk of failing stator insulation than standard Hipot test
- Identify onset of fault mechanisms
- Diagnose damage and deterioration
- Quick, accurate and repeatable results
- Computer records voltage and currents for analysis



The Iris Power DCR 60-2 is a simple off-line DC tester to identify problems in the stator groundwall insulation system of large AC electric machines before an unexpected in-service failure occurs. Unlike the pass or fail of a DC or AC hi-pot test, the DC ramp test gives diagnostic information and often can be stopped before a failure occurs.

Unlike a stepped voltage test, the ramped voltage test enables the user to separate the polarization and capacitive current components from the leakage current so that small insulation defects can be easily found. A single-phase test usually takes less than an hour to perform and can be done by one person. The DCR 60-2 tests according to IEEE Standard 95-2002.

The DC Ramp Test method has been proven in use by the US Bureau of Reclamation and others on a wide variety of machines with asphalt, polyester and epoxy-mica insulations.

Test curves are captured on a PC to allow easy comparison to similar machines or past results.



IRIS POWER DCR 60-2

FEATURES

- Automatically ramps voltage from 0 to 60kV
- Allows manual user-selected voltage control in the range from 0 to 60kV
- Ground presence detection and protection circuits
- Built-in safe winding discharge circuit
- USB connection to PC to: display results as test progresses, store multiple curves and test parameters for later analysis and display curves side-by-side for test comparison
- Examination of the current versus voltage curve allows test stoppage before failure of insulation and diagnosis of damage, defects, and deterioration mechanisms.
- Automatic calculation of polarization index (PI)

KIT CONTENTS

- Control Unit
- HV Module
- Control, HV and Grounding Cables
- Operating Manual
- Software

SPECIFICATIONS

Power Input	85-264 V AC, 2A, 50/60 Hz
Output Voltage and Metering	0 to 60 kV DC, negative polarity
Ramp Rate	0 to 2.5 kV/min (continuously adjustable)
Output Current	1.0 mA max
Current Metering	0-1/2.5/5/10/25/50/100/250 μΑ
PC	USB interface; Windows 7
Operating Temperature	0° to +40°C (+32° to +104°F); Storage: -25° to +60°C (-13° to +140°F)
Operating Altitude	0-3000 m
Dimensions	Control Unit: 420 x 400 x 195 mm HV Module: 550 x 380 x 240 mm
Shipping Case	Control Unit: 810 x 530 x 330 mm HV Module: 810 x 530 x 420
Weight	Control Unit: 9.5 kg HV Unit: 15 kg
Standards	Compliant with IEEE Standard 95-2002 (Compliance EN61326 for EMC Bureau of Reclamation Report REC-ERC-78-7

Iris Power DCR 60-2 is a trademark of Qualitrol-Iris Power. Developed under a Cooperative Research & Development Agreement (CRADA) with the US Department of the Interior, Bureau of Reclamation, in accordance with the Federal Technology Transfer Act of 1986.

QUALITROL-IRIS POWER HAS BEEN THE WORLD LEADER IN MOTOR AND GENERATOR WINDING DIAGNOSTICS SINCE 1990, PROVIDING A FULL LINE OF ON-LINE AND OFF-LINE TOOLS, AS WELL AS COMMISSIONING AND CONSULTING SERVICES.



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