

Iris Power DCR 60-2



DC RAMP TEST SET

WHAT IS IT?

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. In manual mode, the DCR60-2 can also perform the "uniform time" and "graded time" voltage step DC 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.

A 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 current for future analysis

SPECIFICATIONS	
Power Supply	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 μ A
PC	USB interface; Windows 7
Operating Temperature	0° to +40°C (+32° to +104°F); Storage: -25° to +60°C (-13° to +140°F)
Dimensions	Control Unit: 42 x 40 x 19.5 cm (17" x 16" x 8") HV Module: 55 x 38 x 24 cm (22" x 15" x 10")
Shipping Case	Control Unit: 81 x 53 x 33 cm (32" x 21" x 13") HV Module: 81 x 53 x 42 cm (32" x 21" x 17")
Weight	Control Unit: 9.5 kg (21 lb) HV Unit: 15 kg (33 lb)
Standards	Compliant with IEEE Standard 95-2002 CE Compliance EN61326 for EMC Bureau of Reclamation Report REC-ERC-78-7

FEATURES

- Automatically ramps voltage from 0 to pre-selected voltage
- Allows manual user-selected voltage control in the range from 0 to 60kV
- 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 manual stoppage before failure of insulation
- Automatic calculation of polarization index (PI)

KIT CONTENTS

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

GET IN TOUCH

Iris Power
3110 American Drive
Mississauga, Ontario
Canada, L4V 1T2

+1 905 677 4824
sales.iris@qualitrolcorp.com
www.irispower.com
www.qualitrolcorp.com