技术咨询和询价:010-68940148

5 and 15 kV DC Dielectric Test Sets



- Continuously variable test voltage
- Rugged field construction
- Compact and portable

康高特-MEGGER 5KV/15KV DC直流介电测试仪 DeSCRipTion

Dielectric test sets measure leakage current while applying a dc voltage at or above the insulation system's operating level. This measurement aids in determining the insulation system's ability to withstand overvoltages such as lightning strikes and switching surges.

康高特-MEGGER 5KV/15KV DC直流介电测试仪 APPLICATIONS

Megger portable dc dielectric test sets check the electrical insulation quality of motors, power cables, switchgear, insulators, transformers and capacitors. Typical applications include acceptance and maintenance testing of critical equipment used by electrical utility substations and industrial plant distribution systems. Power apparatus manufacturers may also use the equipment to perform QA/QC production tests.

The test sets can be used to perform step-voltage and proof tests which, when incorporated into a routine maintenance program, can aid in predicting potential failure before breakdown occurs.

Two models are available; a 5-kV unit for testing equipment rated 2.5 kV and below, and a 15-kV model for use on equipment rated 7.5 kV and below. Both are suitable for testing power cable, switchgear and rotating machinery in accordance with IEEE, ICEA, NEMA and ANSI guidelines.

Because Megger dc dielectric test sets act like full-wave rectified units, they also are suitable for applications involving vacuum bottles.

康高特-MEGGER 5KV/15KV DC直流介电测试仪 DC vs AC High-Potential Testing

Direct current high-potential testing provides several advantages over alternating current. Direct current test equipment uses far less power, provides fast charging of highly capacitive test samples, can be easily transported to the test site and costs less. Additionally, the dc test can detect incipient breakdown without the possibility of damage to good insulation.

FEATURES AND BENEFITS

- Compact and portable
- Air insulated, uses no oil
- ±2% accuracy
- Leakage current measurement as low as 0.1 mA
- Continuously variable test voltage with zero-start safety interlock
- Fast charging of high-capacitance samples
- Current guard circuit for highly accurate measurements
- Strip chart recorder for hard copies (optionally available)

Safety and Reliability

- Input and output line circuit breaker
- Output current overload relay
- Zero-start interlock for high-voltage output
- Switch control and indicating lights for high-voltage ON/ OFF on the 15-kV model
- Full circuit breaker protection

Megger.

SPECIFICATIONS

Input

120 Vac, 50/60 Hz

Output

Cat. No. 220005

Voltage (maximum): 0 to 5 kVdc, negative with respect to ground **Current (maximum):** 5 mA continuous

Metering

Kilovoltmeter: 4-in. (102-mm) taut band with two ranges, 0 to 2.5 and 0 to 5 $\,\mathrm{kV}$

Current Meter: 4-in. (102-mm) taut band with four ranges, 0 to

 $5/50/500~\mu A$ and 5~mA

Cat. No. 220015

Voltage: 0 to 15 kVdc, negative with respect to ground

Current: 2 mA continuous

Short Circuit: 12 mA max., limited by circuit breaker

Metering

Kilovoltmeter: 4-in. (102-mm) taut band with two ranges, 0 to 7.5 and 0 to 15.0 kV

Current Meter: 4-in. (102-mm) taut band with four ranges, 0 to $5/50/500\ \mu A$ and 5 mA

Accuracy

±2% of full scale

Temperature Range

0 to 122° F (-17.7 to +50° C) operating



5 kV model

CAT. NO.	Model	Test Voltage Range*	Max. Power System Voltage	Output Current (120-Vac input)	Dimensions	Weight		
220005	5 kV	0 to 2.5 kVdc 0 to 5 kVdc	2.5 kVac (phase-to-phase)	5 mA continuous	9.4 H x 13.5 W x 10 D in. 24.8 H x 34.3 W x 25.4 D cm	20.5 lb (9.3 kg)		
220015	15 kV	0 to 7.5 kVdc 0 to 15 kVdc		5 mA for 12 min; 2 mA continuous		35.2 lb (16 kg)		
* Negative polarity with respect to ground								

ORDERING INFORMATION							
Item (Qty)	Cat. No.	ltem	Cat. No.				
DC Dielectric Test Sets		Optional Accessories					
5 kV	220005	High-voltage resistance discharge stick	222070-62				
15 kV	220015	Internal voltage stabilizer, Cat. No. 220015 only	Add -50				
		Special cable lengths	Add -56				
Included Accessories		"The Lowdown on High-Voltage DC Testing"	AVTM22P-1				
Ground connection cable, 10 ft [3 m]	4702						
$kV/M\Omega$ test record graph paper (100-sheet pad)	220000						
Power cord, Cat. No. 220015	17032						
Instruction manual, Cat. No. 220005	AVTM22-5JB						
Instruction manual, Cat. No. 220015 A	VTM22-15JA						