

# AT686 HIGH VOLTAGE INSULATION RESISTANCE METER

## AT 686A

**Smart Touch**

**CHINESE/ENGLISH OPERATION**

294 (W) \* 130 (H) \* 448 (D)  
UNIT: mm

Weight: 8kg

## IR Rated Output : 5kV / 50GΩ

The AT686A high-voltage insulation resistance tester adopts a 5-inch color LCD display screen (with touch control). It is equipped with a mainstream high-performance 32-bit ARM processor.

The AT686A insulation and voltage withstand tester can be widely used for safety performance inspection of household appliances, transformers, electrical equipment and components. This instrument is equipped with a Controller interface (PLC interface) and RS232C for convenient data communication and remote control



■ Power Supply 85VAC~250VAC 50Hz~400Hz Power: maximum 300VA with a PC, meeting the requirements of automated testing and improving production efficiency.

MODEL	AT686	AT686A
<b>AC WITHSTAND VOLTAGE TEST</b>		
<b>Rated Output</b>	2.5kVAC / 10mA	5kVAC / 10mA
<b>Output voltage</b>	0.050kV-2.500kV ; (resolution ratio0.001 (1V) ;accuracy ± (2%×Read value + 5dgt) ;	0.050kV-5.000kV ; (resolution ratio0.001 (1V) ;accuracy ± (2%×Read value + 5dgt) ;
<b>Test Current</b>	0.001mA-10.00mA(resolution ratio0.001 / 0.01 accuracy± ( 2%×Read value + 5dgt)	
<b>Working Frequency</b>	50Hz / 60Hz, ±0.1%	
<b>Output waveform</b>	Sine wave, distortion less than 3% (pure resistive load)	
<b>Voltage regulation rate</b>	±(2%×Read value+5V) From no load to full load	
<b>DC WITHSTAND VOLTAGE TEST</b>		
<b>Rated Output</b>	6kVDC / 5mA	
<b>Output voltage</b>	0.050kV-6.000kV ; (resolution ratio0.001 (1V) ;accuracy ± ( 2%×Read value + 5dgt) ;	
<b>Test Current</b>	0.001mA-5.00mA(resolution ratio0.1 / 0.01; accuracy± ( 2%×Read value + 5dgt)	
<b>INSULATION RESISTANCE</b>		
<b>Rated Output</b>	2.5kV / 10GΩ	5kV / 100GΩ
<b>Output voltage</b>	0.050kV- <b>2.500kV</b> ; (resolution ratio0.001 (1V) ; accuracy ± ( 1% ×Read value + 2dgt) ;	0.050kV- <b>5.000kV</b> ; (resolution ratio0.001 (1V) ; accuracy ± ( 2%×Read value + 5dgt) ;
<b>Resistance measurement range</b>	0.02MΩ-10GΩ	<b>1.0MΩ-100GΩ</b>
<b>Resistance measurement accuracy</b>	≥ <b>500V</b> : 1MΩ-1GΩ ± ( 5% Read value+5 dgt) ; 1GΩ-10GΩ ± ( 10% Read value+5 dgt)	≥ <b>1000V</b> : 1MΩ-1GΩ ± ( 5% Read value+5 dgt) ; 1GΩ-100GΩ ± ( 10% Read value+5 dgt)
	< <b>500V</b> : 0.1MΩ-1GΩ ± ( 10% Read value+5 dgt) 1GΩ-10GΩ For reference only	< <b>1000V</b> : 1.0MΩ-1GΩ ± ( 10% Read value+5 dgt) ; 1GΩ-10GΩ For reference only
<b>General</b>		
<b>Discharge function</b>	Automatic discharge after testing	
<b>ARC Detector</b>	1-9 (AC / DC)	
<b>Voltage rise time</b>	0.1s-999.9s	
<b>Voltage test time</b>	0.1s-999.9s	
<b>Voltage drop time</b>	0.1s-999.9s	
<b>Interface</b>	Handler (PLC) 、RS232C 、USB	
<b>Accessories</b>	ATL900E high-voltage testing line; ATL900-E high-voltage test rod; ATL108 RS232C communication cable;	