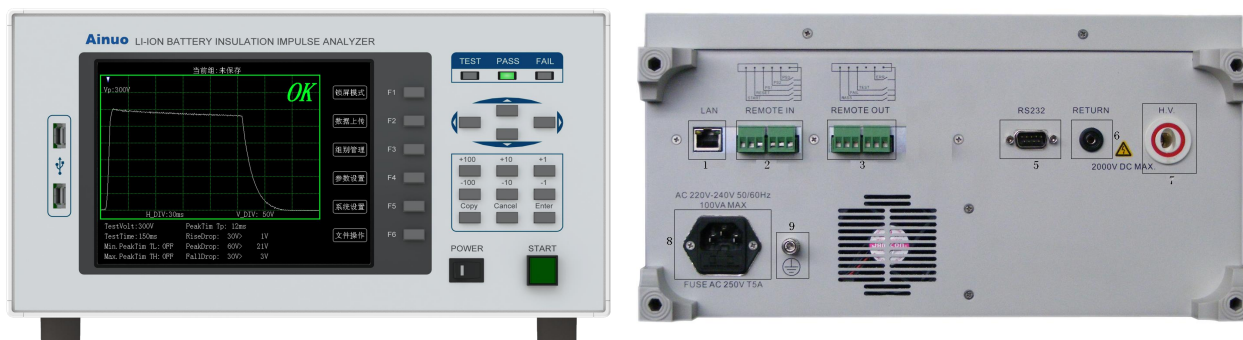


## AN8179F(F) Pulsed Lithium Battery Insulation Analyzer



### Product Introduction

Ainuo AN8179F(F) series is a special tester for the insulation of lithium battery cells, featuring quick test, high failure detection rate, low damage to failure point, and clear result display.

#### ★ Fast test

The analyzer can test two parameters of the charging voltage wave and charging time of the lithium battery cell, completing one test within 50ms or more.

#### ★ High detection rate

The analyzer can also accurately identify the micro-short-circuit conditions such as diaphragm perforation, impurities, and edge burrs of lithium battery cells in addition to testing the insulation failure of battery cells, preventing defective cells from entering the next process.

#### ★ Low damage to failure point

The analyzer detects voltage drop in real time during charging/holding/discharging to detect any partial insulation failure as soon as possible, to avoid false temporarily conformity after clearing hidden micro-short circuit point, and avoid excessive damage to micro-short circuit (which is not conducive to fault analysis).

#### ★ Clear result display

The analyzer fulfills test, judgement and display via wave display, and setting of voltage dip upper/lower limit and charging time upper/lower limit. The judgment basis and results are displayed clearly.

### Specifications

AN8179F(F)		
Test capacity of capacitor		20nF ~ 6000nF
Voltage setting	Charging voltage range	50 ~ 1000V(optional 2000V)
	Dip of rise voltage	0~100%, display OFF when it is set to 0, indicating that this parameter does not participate in the judgment.
	Hold voltage dip	0~100%, display OFF when it is set to 0, indicating that this parameter does not participate in the judgment.

	Discharge voltage dip	0~100%, display OFF when it is set to 0, indicating that this parameter does not participate in the judgment.
Time	Test time T	10 ~ 3000ms
	Charging time TL、TH	10 ~ 3000ms
	Discharging time	Up to 2000ms (related to battery capacity)
Judgment method		Voltage dip, charging time
Standard parameter storage		100 groups
Display		8.0" TFT LCD, 800 × 600 dot matrix
Waveform Display		Time-horizontal axis, Voltage-vertical axis, 8*8 squares
Interface		RS232、LAN、USB、PLC
Dimensions W × H × D(mm)		350 × 187 × 360

## Specification Details (subject to the final confirmation of the technical specification)

AN8179F(F)		
Capacitance range	20nF ~ 6000nF	Battery electrostatic capacity before liquid injection, equivalent parallel ESR $\geq$ 1M $\Omega$
Built-in open circuit protection capacitor	2nF (Note: it is in parallel with the tested battery capacitor)	
Charging voltage	Range	50 ~ 1000V(optional 2000V)
	Steps	10V/100V
	Precision	$\pm$ (3% of setting value+5V)
Voltage rise drop	Range	0 ~ 100%, 0 is OFF, indicating that this parameter does not participate in the judgment.
	Steps	0.1%/1%/10%
	Precision	Convert to voltage: $\pm$ (3% of setting value+5V)
Voltage hold drop	Range	0 ~ 100%, 0 is OFF, indicating that this parameter does not participate in the judgment.
	Steps	0.1%/1%/10%
	Precision	Convert to voltage: $\pm$ (3% of setting value+5V)
Voltage fall drop	Range	0 ~ 100%, 0 is OFF, indicating that this parameter does not participate in the judgment.
	Steps	0.1%/1%/10%
	Precision	Convert to voltage: $\pm$ (3% of setting value+5V)
Test time	Range	10 ~ 3000ms
	Steps	1ms/10ms/100ms
	Precision	$\pm$ (2% of setting value+2ms)
Shortest filling time TL	Range	10 ~ 3000ms
	Steps	1ms/10ms
	Precision	$\pm$ (2% of setting value+2ms)
Maximum filling time TH	Range	10 ~ 3000ms
	Steps	1ms/10ms
	Precision	$\pm$ (2% of setting value+2ms)
Filling time	Range	TL~TH, the system automatically measures and cannot be set.
	Precision	$\pm$ (2% of setting value+2ms)
Discharge time	2000ms (Maximum, related to battery capacity)	

Special mode	ON/OFF (ON is suitable for testing lithium batteries smaller than nominal capacity)	
Judgment method	Basis	Voltage drop; charging time
	Result	OK、NG (error code)
	Alarm	Sound, light
Standard parameter groups	100	Corresponding to the test group, non-volatile, stored in the machine
Monitor	8.0" TFT LCD, 800 × 600 dot matrix	
Waveform display	Timeline	8 grids, horizontal
		1 ruler
	Voltage axis	8 grids, vertical
		Grid specification 300、200V、100V、50V
		1 ruler
Test result waveform external storage mode	U disk	Manual, automatic (Only save OK, only save NG and XX, save all)
	RS232	PC communication read
	Remote	Upload and save test waveform to network server through the network port communication
Interface	Rear panel	RS232/485(choose one), standard RS232
		Remote input, output interface
		LAN port for remote computer storage
		High pressure/return port, measurement port
	Front panel	USB interface
Dimensions W x H x D(mm)	350mm*187mm*360mm	