ONLLY-AQ2460 Relay Test Set

1.Main configuration

Four voltage sources; Six current sources; Octet input; Four pairs of rapid discharge; Two pairs of

common output.

2.Technical Data

Power supply	Power consumption	＜1000VA
	Power supply mode	AC:（220±20%）V(47～63Hz)； DC：(220±5%)V
Voltage source	AC voltage range	4×（0～125 ）V
	AC voltage accuracy	<2V，the absolute error is less than 4mV 2V to measurement range, relative error is less than 0.2% Relative error < 0.05%(optional)
	Total harmonic distortion rate	2V to measurement range，The total harmonic distortion is ≤0.2%
	AC voltage power	When the maximum voltage is output, the power is not less than 50VA
	Output time	Continuous output
	DC voltage range	0～350V（L-L）；-175～+175V（L-N）
	Dc voltage accuracy	＜5V，absolute error ＜10mV； 5V to measurement，relative error ＜0.2%
	Dc voltage power	±350VDC，Output power＞80W； ±175VDC，Output power＞50W

Current Source	AC current range	6×（0～15）A
	AC current accuracy	＜0.5A，absolute error＜1mA； 0.5A to measurement range，relative error＜0.2% Relative error < 0.05%(optional)
	Total harmonic distortion rate	0.5A to measurement range，Total harmonic distortion rate≤0.2%
	AC current power	Maximum output power：30VA
	DC current range	（0～5）A
	DC current accuracy	＜1A，absolute error ＜5mA； 1A to measurement range，relative error＜0.5%
	DC current power	Single-phase power＞15W
Output frequency		Range：10-1000Hz ；10-2500Hz(optional)；Resolution：0.001 Hz error：10 Hz＜f≤65 Hz，does not exceed±0.001 Hz ； 　　65 Hz＜f≤450 Hz，does not exceed±0.01 Hz； 　　450 Hz＜f≤1000 Hz，does not exceed±0.02Hz；
Phase		Range：±360º；Error：＜0.2º；Resolution：0.1º
Independent auxiliary DC		Switchable between 110/220VDC，the power is no less than 100W, accuracy: 0.5%
Independent small signal channel		12（6U+6I）（optional）
Time measurement		Maximum measurement time：$1.000×10^5$s； Timing error::±1ms(0.001s～1s)；±0.1%（1s～$1.000×10^5$s） Anti-jitter time range (set by software):0ms～20s
Binary inputs		8 pairs: input feature （0～250VDC） or idle contact (automatic recognition)
Binary outputs (software control)		6 pairs: Type：2 pairs of idle contacts are polarity free (electrical isolation) 　　　4 pairs of quick output contacts (response time＜100μs) DC capacity：Vmax: 250VDC/Imax：0.3A

Synchronous interfaces	Synchronization mode (optional)	Beidou/GPS (Optional)： /IRIG-B/PPS
	Synchronous interface	SMA Antenna interface*1 ST Optical interface*2（IN/OUT x1） Electrical interface*2（IN/OUT x1）
Network control	Electric Ethernet	RJ45*2
	Wi-Fi	The built-in Wi-Fi module can be used for controlling the test in a wireless manner.
Case dimensions and weight		Total weight：＜9.6kg Dimensions：380mm×280mm×140mm

1.Feature

● Modular structure, stable and reliable performance

● 12.1-inch touch screen with shortcut keys

● Independent dual screen design, large screen setting parameters; Small screen real-time output monitoring

● Supports up to 50 harmonic outputs

● Real-time tracking of power grid frequency synchronous output

● Automatically adjust screen backlight brightness

● Intelligent stepless variable speed cooling fan can change the fan speed according to the chassis temperature

● AC/DC power supply available

● Rich software testing functions, meet all the requirements of relay testing, voltage, current, frequency, intermediate, time, impedance, differential and other relays and line protection, busbar protection, transformer protection, transformer group protection and other microcomputer protection devices for testing

2.Function

● Built-in industrial computer, 10.4 inch touch screen, support offline operation, small size, easy to carry;

● With dual network ports, automatic test does not require an external switch, and on-site operation is more convenient;

- Built-in Wi-Fi access function, can realize the computer through the wireless network control tester;

- USB interface function is more perfect, support external mouse, keyboard, identification U disk, etc., to meet a variety of needs;

- With GPS, IRIG-B, IEEE-1588, Beidou timing (optional) and other synchronous timing functions;

- Support U disk upgrade up and down machine program, can also be connected to the external computer, more convenient operation;

- Support up to 50 harmonics output, can be superimposed at the same time, easy to test HVDC filter and other protection devices;

- Provides the protection of impedance characteristics editing function: can be imported through the template, can also be customized; It is very convenient for users to debug

- The State sequence menu provides up to 60 states for testing, all of which can be set freely by the user; The opening and closing energy of the opening quantity in each state is freely controlled, which is used to simulate the action of the protection outlet contact, especially convenient for the independent debugging of the fault recorder; Support multiple repeated tests and record multiple results; Support ladder change; Support to set the linear change of the respective channel frequency;

- It can search and test the proportional braking and harmonic braking characteristics of various generator, transformer, female differential protection, support boundary search and fixed point testing, support binary search and one-way search, to meet the needs of users.

- Can directly communicate with the protection device, read the protection set value, sample value, protection report and other information, and modify the protection set value, back control word and soft plate operation;

- Support embedded standard automatic test software system, to provide a standardized, standardized and efficient solution for the inspection of relay protection devices;

- Provide test template development platform, customers can customize and secondary development of test templates according to requirements. (optional)