

HYC 华兴源创

Relay Electric Cleaning Equipment Datasheet



Voltage and current detection of relay coils and contacts, relay cleaning

Product Features

HX-RY-1500 Relay Electric Cleaning Equipment is mainly used in the field of relay detection and cleaning of new energy vehicles, it can detect the voltage and current at both ends of the relay coil, as well as the voltage and current at both ends of the relay contacts, and detect whether the relay is invalid under high-current pulse. The Relay Electric Cleaning Equipment can provide a maximum of 450A constant-current pulse to clean oxidations and burrs on the relay contacts.

■ * We can provide customized service according to customer product specifications and test and measurement requirements, please contact our sales staff for more information.

Product Advantages

Relay detection

- ◆ Detection of voltage and current at both ends of the relay coil, as well as voltage and current at both ends of the relay contacts.
- ◆ Detect whether the relay is invalid under high-current pulse.

Relay cleaning

- ◆ Clean the contact surfaces of encapsulated relays with high-pressure narrow pulse, supporting up to 450A constant current pulse cleaning.
- ◆ Clean one relay at a time.
- ◆ The cleaning frequency, the number of cleaning runs and the voltage value of cleaning contacts can be set independently.
- ◆ Efficient cleaning, quickly and effectively remove the impurities on the surface of the relay contacts, and restore the conductivity of the contacts.

Multiple communication interfaces

- ◆ Support Ethernet, serial port, USB communication control
- ◆ Support ModBus communication

Wide range of applications

- ◆ Suitable for relay maintenance of all kinds of power equipment, automation control equipment, industrial machinery, and new energy vehicles.

Specialized in relay cleaning and maintenance for some key equipment which needs to maintain high reliability and high stability.

Powerful, safe and reliable

- ◆ Conveniently fitted in various sites, easy to install and maintain.
- ◆ No damage to the internal structure of the relay, safe and reliable.
- ◆ High cleaning efficiency.
- ◆ Easy to operate.

Professional software

- ◆ Simple interface, flexible operation.
- ◆ Meet the test requirements in complex test environments.

Service Advantages



Deep plowing in the field of automotive electronics
Self developed core technology



Short delivery cycle
Fast and accurate response



Localized service team
One-stop solution



Large volume of product shipments with rich application scenarios

■ HYC reserves the right to make improvements to the specifications and appearance of our products without notice.

Application Scenario

Relay electric cleaning equipment plays a vital role in industrial automation, it can be widely used in automated line equipment to help maintain the high-speed and stable operation of the production line, not only improving working efficiency, but also enhancing the reliability and safety of the equipment.



Application Case 1



Application Case 2



Application Case 3

Equipment Parameters

Category		Specification		
Relay contact (constant current pulse)	Maximum current output	450A		
	Maximum voltage output	24V		
	Maximum power output	3000W		
	Settable current output	0 ~ 450A		
		Resolution	0.1A	
		Accuracy	0.5A	
	Monitored current output	0 ~ 450A		
		Resolution	0.1A	
		Accuracy	0.5A	
	Monitored voltage output	0 ~ 24V		
Resolution		0.1V		
	Accuracy	0.1V		
Other functions	Voltage and current monitoring and alarm function, constant current pulse control			
Relay coil control (Constant voltage pulse)	Maximum voltage output	36V		
	Maximum current output	3A		
	Maximum power output	75W		
	Settable voltage output	3V ~ 36V		
	Monitored voltage output	0V ~ 36V		
		Resolution	1mV	
		Accuracy	10mV	
	Monitored current output	0 ~ 3A		
		Resolution	1mA	
		Accuracy	10mA	
Other functions	Coil power supply and control circuitry, PWM control of connection and disconnection of the coil, settable frequency duty cycle			
Communication interface	100M Ethernet	1		
	Serial port	1		
	USB port	1, supporting ModBus communication		

■ In addition to the above specifications, this product can be customized and developed according to customer product specifications and test and measurement requirements.

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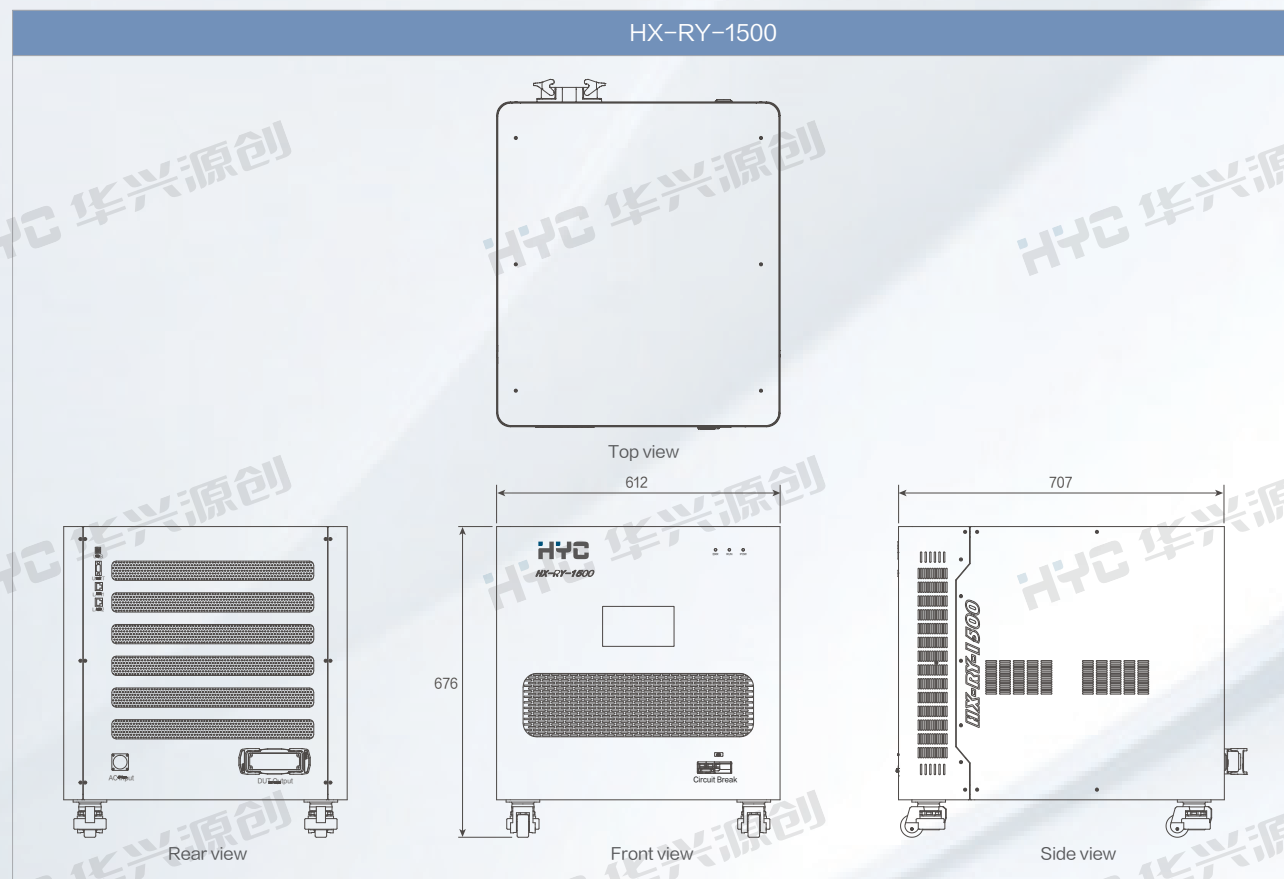
Equipment Model

Serial number	Item Code	Model	Device name
1	AP-02-03-10137-N	HX-RY-1500	Relay electric cleaning equipment

Equipment Specification

Category		Specification
Equipment model		HX-RY-1500
Equipment dimensions		L 555 mm × W 707 mm × H 677 mm
Weight		About 100kg
Power input		AC 220V
Rated current		15A
Environmental requirement	Temperature	Working temperature: 0°C ~40°C Storage temperature: -20°C ~60°C
	Relative humidity	5%~90% (No condensation)
	Altitude	< 2000m
	Air pressure	80~110Kpa

Equipment Size



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