



GDSL-A-5000 Primary Current Injection Test Set



General Information

GDSL-A-5000 Automatic 3-phase Primary Current Injection Test Set shall be applicable to current load test and temperature rise test of busbars, switchgear, circuit breakers, contactors, current transformers and other electrical equipment. GDSL-A-5000 Automatic 3-phase Primary Current Injection Test Set with temperature rise test, uses PLC and touch screen industrial control monitor as the control system, which can realize manual and auto control. The generator can realize the output of three phase 5000A current and collect the temperature of 26 channels. It is able to display the collected temperature and current in the way of curve graph. The testing results can be exported as CSV file by U disk, which is

convenient for analysis and processing on the computer. The equipment has the perfect protection and self-checking function.

Features

- Current, temperature, time, status and prompt information and other data will display on large LCD screen, the reading is clear and intuitive;
- Full English interface, touch screen operation, operation is simple and clear, can be adapted to a variety of applications;
- Direct viewing operation, not only can operate by panel button, but also can operate by touch screen, quick and easy to handle.
- When set up into auto current boosting, the three-phase output current is automatically adjusted and balanced, and the precision is easy to control.
- Status alert function, guided operation, the user can skilled manipulation even in the case of no manual;
- Pause function, during automatic control, it can achieve pause at any point of current rise/drop process, pause time can be controlled by the test personnel, convenient to observe the state of the test objects.
- Test time can be arbitrarily set, 0 second to 20 hours;
- Timing function, whether it is in automatic control or manual control, the timer will be started by manually, when the time is up, display the test results, the device automatically back to zero;
- Manual control mode, this mode is similar to the traditional electric rise/drop mode, current increase/decrease is controlled by press-button, equipment will automatically determine the upper/lower limit, with over-current protection, manual control of the whole test procedure, on-demand operation.

- The panel has an emergency button. When the equipment is abnormal, the control power can be cut off quickly.
- When the ambient temperature and the internal temperature of equipment are high, please open the fan switch on the panel to do heat dissipation for equipment.
- For different loads, manual reactive power compensation can be realized.
- When over-current and other the faults occurs, the protection of real-time, accurate and reliable;
- Using hardware and software anti-interference technology, stable performance, strong anti-interference ability, the abnormal phenomenon of crashes, black screen and blurred screen does not appear in the test.
- The equipment is equipped with a hardware self checking function, which can identify the fault of the screen control broken line, the internal parameter register fault and the output current collector fault.

Specification

Type	GDSDL-A-5000	
Max. Output current	AC Single-phase 5000A*3 groups	
Circuit mode	Electric voltage regulator with special craft	
Duty cycle	8 hours	
AC Input	Phase line	3P

	Voltage	208V±10%, 60Hz±2% 3Φ4W
	Input current	288A
Output	Phase line	3Φ4W
	Voltage	0~12V Auto switching
	Current	AC0~5000A continuous adjustable, stepless speed regulation; 3-phase can output at one time, can output single-phase, also can split phase output; Tow kinds of output-manual mode and auto mode;
	Rated capacity	180kVA
	Stabilized current accuracy	Output current≤±0.5%
	Output terminal	Wiring terminal

	Protection	The electronic circuit rapidly detects over voltage, over current, over temperature, phase loss, etc., automatic tripping protection and alarm device, the voltage and the current is zero in non-test status.
Accuracy	Source effect	$\leq 0.3\%$ of rated value
	Time drift	$\leq 1\%$ of rated value
	Temp. drift	$\leq 0.04\%$ of rated value/ $^{\circ}\text{C}$
	Load effect	$\leq 1\%$ of rated value (Output voltage change rate due to the output current change from zero to the rated value.)
	Ripple voltage	$\leq 1\%$ of rated value+10mV
Others	Line regulation	0.1%
	Load regulation	0.1%

Display and settings	Voltage meter display	True color LCD and digital display instrument (display accuracy: 0.1V display error: $\leq 1.0\% \pm 3$ digit)
	Current meter display	True color LCD and digital display instrument (5 digits display, display accuracy: 0.1A display error: $\leq 1.0\% \pm 3$ digit)
	Adjustment setting	Current (High precision potentiometer adjustment)
System	Efficiency	$\geq 90\%$
	Resistance	Withstand voltage insulation resistance AC1800V 1min, 20MW
	Cooling device	Forced fan cooling
	Noise	<60dB (1mm in front of the device)
	CT accuracy	0.2%

	Protection level	IP20
Working environment	Working mode	Long time temperature rise test
	Temperature	-10°C~50°C
	Humidity	0-90% (non-condensing)
	Altitude	<1500m
Appearance	Structure	Integration
	Dimension	Customized
	Weight	Approx. 2.5T
Temperature inspection	26-way module	
	A class thermocouple	PT100 with 6m line * 26pcs

Voltage regulation

Rated capacity	180kVA
Phase number	3Φ4W

Input voltage	3-phase, 208V
Output voltage	3Φ4W, 0-250V
Frequency	60Hz
Motor power	ND-4.5RPM 100W
Insulation class	B class
Insulation resistance	5MW
Withstand voltage test	2000V/min
Waveform distortion	≤0.1%
Cooling mode	Oil cooling