

GE Energy



CSU600A™

CSU600AT™

Current Supply Units
Programma® Products



imagination at work

CSU600A™/600AT™



Current Supply Units

These high-current supply units have two main fields of application. The first is to conduct primary tests on protective relays. A primary test shows whether all parts of the protection system are functioning together properly within the specified time limits under operating conditions.

The second field of application involves conducting current tests on low-voltage circuit breakers and overcurrent devices.

The CSU600A™ is a compact instrument which, together with Timer TM200™ and an external ammeter, meets stringent requirements for accuracy, easy handling and performance. This current supply unit is ideal for a) performance and turn-ratio tests of current transformers, b) primary tests of protective relays, c) current tests on low- and high-voltage circuit breakers and d) commissioning tests that require variable currents.

The more sophisticated CSU600AT™ provides a more comprehensive solution. It has a built-in timer and an analog ammeter that provide rough current settings quickly and easily. As a result, connection time has been reduced to the bare minimum.

The CSU600A™ and CSU600AT™ current supply units have an excellent weight/performance ratio.

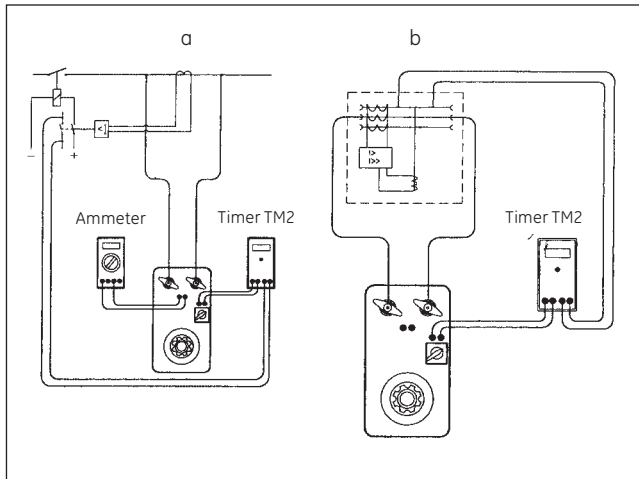
Application example

IMPORTANT!

Read the User's manual before using the instrument.

Primary test of protective relay equipment and low-voltage circuit breaker

1. Connect the CSU600A's current outputs across the current transformer (diagram a) or to the breaker terminals (diagram b).
2. Connect Timer TM200's start input to output T and the stop input to the protective relay equipment's auxiliary contact.
3. Set the current.
4. Execute the test.
5. Read the time from Timer TM200.



Optional accessories

Cable set (for 115 V), 2 x 5 m (16 ft), 70 mm²

Weight: 8.4 kg (18 lbs)

Cable set, 2 x 10 m (33 ft), 70 mm²

Weight: 16.8 kg (37 lbs)

Cable set, 2 x 15 m (49 ft), 95 mm²

Weight: 29.4 kg (65 lbs)

TM200

External timer

See the TM200 product pages for more information

Specifications CSU600A/AT

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change without notice.

Environment

<i>Application field</i>	The instrument is intended for use in high-voltage substations and industrial environments.
<i>Temperature</i>	
<i>Operating</i>	0°C to +50°C (32°F to +122°F)
<i>Storage & transport</i>	-40°C to +70°C (-40°F to +158°F)
<i>Humidity</i>	5% – 95% RH, non-condensing

CE-marking

<i>LVD</i>	Low Voltage Directive 73/23/ EEC am. by 93/68/EEC
<i>EMC</i>	EMC Directive 89/336/EEC am. by 91/263/EEC, 92/31/EEC and 93/68/EEC

General

<i>Mains voltage</i>	115 or 230 V AC, 50/60 Hz
<i>Power consumption (max)</i>	115 V, 667 VA cont. (interm. 3738 VA) 230 V, 851 VA cont. (interm. 6440 VA)
<i>Protection</i>	Thermal cut-outs and miniature circuit breakers
<i>Dimensions</i>	
<i>Instrument</i>	356 x 203 x 241 mm (14.0" x 8.0" x 9.5")
<i>Transport case</i>	610 x 290 x 360 mm (24.0" x 11.4" x 14.2")
<i>Weight</i>	21.9 kg (48 lbs) 38.3 kg (84.4 lbs) with accessories and carrying case
<i>Current cables</i>	2 x 5 m (16 ft), 50 mm ²

Measurement section

<i>Ammeter</i>	Built-in, 0 – 600 A (only on CSU600AT) Output for external ammeter
<i>Current transformer</i>	500/5 A, class 0.5

Timer (only CSU600AT)

<i>Range</i>	0-999.999 s
<i>Resolution</i>	1 ms
<i>Inaccuracy</i>	±0.02% of shown value + 0 to 2 ms

Other

Output for starting external timer

Outputs, AC, intermittent output ¹⁾ (CAT I)

Current	Load time	115 V mains voltage		230 V mains voltage	
		Minimum output voltage	Load time	Minimum output voltage	Load time
0 A	Cont.	6.0 V	Cont.	9.5 V	Cont.
75 A	–	–	Cont.	9.3 V	Cont.
100 A	Cont.	5.6 V	1 h	9.0 V	Cont.
200 A	15 min	5.3 V	5 min	8.5 V	Cont.
300 A	1.5 min	4.9 V	2 min	8.0 V	Cont.
400 A	1 min	4.6 V	1 min	7.5 V	Cont.
500 A	20 s	4.2 V	30 s	7.0 V	Cont.
600 A	15 s	3.9 V	20 s	6.5 V	Cont.

¹⁾ Maximum load time from cold state 25°C (77°F). Not valid for repeated tests.

Maximum cable lengths at 600 A

115 V mains	2 x 5 m (16 ft), 70 mm ²
230 V mains	2 x 5 m (16 ft), 50 mm ² 2 x 10 m (33 ft), 70 mm ² 2 x 15 m (49 ft), 95 mm ²

Ordering information

CSU600A

Complete with:

Cable set GA-05052

Transport case GD-00182

115 V Mains voltage

Art.No.

BF-11190

230 V Mains voltage

BF-12290

CSU600AT

Complete with:

Cable set GA-05052

Transport case GD-00182

115 V Mains voltage

BF-21190

230 V Mains voltage

BF-22290

Optional accessories

Cable set 5 m (for 115 V)

GA-07052

Cable set 10 m

GA-07102

Cable set 15 m

GA-09152

TM200

BE-29090



Cable set GA-05052

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