

GF6019D1

600A1000V DC Power Source With Energy Meter Calibrator

The GF6019D1 high precision DC energy meter test equipment consists of an DC voltage standard source, DC current standard source and DC power source. (up to 1150V/600A) and built-in DC electronic reference standard of accuracy class 0.05%. Characteristic features of the GF6019D are its wide measuring range, high accuracy and high tolerance to unwanted external influences. The equipment offers high functionality combined with an excellent menu guided operation via built-in keyboards and colored 8" LCD-display. It can test DC energy meter basic error, starting test, creep test, error of time of day.



Features

1. Accuracy class 0.05
2. 0-600A/0-1150V
3. Start testing and creep testing
4. DC power source integrated
5. Test by automatic or manual
6. 8 inch TFT touch screen
7. Recorder 10000 sets energy meter data
8. Overload, short circuit, open circuit protection

Functions

1. Testing all kinds of DC energy meter, DC power meter
2. Testing all kinds of DC ammeter, DC voltmeter
3. DC current source and DC voltage source
4. User friendly menu guided operation
5. Especially configured USB stick for storage of customer data
6. Easy verification and analysis of DC meter
7. Automatic operation without need of an external PC

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
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Белгород (4722)40-23-64
Брянск (4832)59-03-52
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

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Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
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Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
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Орел (4862)44-53-42
Оренбург (3532)37-68-04
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Россия (495)268-04-70

Пермь (342)205-81-47
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Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
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Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Казахстан (772)734-952-31

Сургут (3462)77-98-35
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Тюмень (3452)66-21-18
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Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
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Parameters

Electrical parameters	
Accuracy	0.05%
Power Supply	One Phase AC 180-265V, frequency 50/60Hz.
DC Voltage Output	
Range	65V, 250V, 500V, 750V, 1000V (max 1150V)
Adjustment range	(0-120)%RG ⁽¹⁾
Adjustment fineness	0.01%RG, 0.1%RG, 1%RG, 10%RG as optional.
Stability	0.01%/120s
Distortion	0.1% (Non-capacitive load)
Output load	50VA
Full load regulation rate	≤±0.01%RG
Accuracy	±(0.03%RD+0.02%RG)
DC Current Output	
Range	0.001A, 0.005A, 0.02A, 0.05A, 0.2A, 1A, 3A, 10A, 20A, 50A, 100A, 500A (max 600A) small signal 2.5mV, 20mV, 100mV, 1V, 5V
Adjustment range	(0-120)%RG
Adjustment fineness	0.01%RG, 0.1%RG, 1%RG, 10%RG as optional.
Stability	<0.01%/120s, small signal 2uV/min
Distortion	≤0.1% (Non-capacitive load)
Output load	1200VA
Full load regulation rate	≤±0.01%RG
Accuracy	±(0.03%RD+0.02%RG)
Externally attached shunt	100mV
Accuracy	±(0.06%RD+0.04%RG)
DC Power Output	
power output stability	<0.01%RG/120s
power accuracy	±(0.03%RD+0.02%RG)
DC Power Energy Measurement Error	
power energy	±(0.03%RD+0.02%RG)
Power Pulse Output	
Power Pulse Output	20KHz (Full-Range)
Power Pulse Input	
Energy pulse input	20KHz
Ripple output	20-500Hz ripple output
Communication port	USB port, RS232, 10/100M LAN

Mechanical parameters

Dimensions (WxDxH) (mm)	630x600x450
Weight (kg)	20, 55

Environmental conditions

Ambient temperature	-10°C to +40°C
Relative humidity	35%-85%

(1) RG means range, the same as below;

(2) RD means the setted harmonic content, harmonic can be a single output, also multiple output.

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