

GF6019D

High Precision DC Energy Meter Test Equipment

The GF6019D high precision DC energy meter test equipment consists of an DC voltage standard source, DC current standard source and DC power source. (up to 800V/120A) 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 5.7" 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. 0-120A/0-800V
3. Start testing and creep testing
4. DC power source integrated
5. Test by automatic or manual
6. 7 inch TFT screen
7. Weight light 20Kg
8. Recorder 1000 sets energy meter data
9. 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

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Parameters

Electrical parameters	
Accuracy	0.05%
Power Supply	One Phase AC 180-265V, frequency 50/60Hz.
DC Voltage Output	
Range	100V, 350V, 500V, 700V (max 800V)
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	20VA
Full load regulation rate	≤±0.01%RG
Accuracy	±(0.03%RD+0.02%RG)
DC Current Output	
Range	75mV, 2A, 20A, 50A, 100A
Adjustment range	(0-120)%RG
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	150VA
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
Mechanical parameters	
Dimensions (W×D×H) (mm)	460x460x175
Weight (kg)	20

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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