







6000 VDC

Technical data G7-1A / G7-1M High voltage: 0.05 .. 6.00 kV ●

0 .. 500 μA • 0 .. 5.00 mA

Protective earth conductor: 0 .. 500 $m\Omega$ •

12 VAC / > 10 A

Insulation resistance: $2.50 \cdot 25.0 \cdot 50 \text{ M}\Omega$

Output: 30 W

Interface:Ethernet ● digital interface 1Line voltage:230 V ± 10%; 49 .. 61 HzDimensions:19" / 4 HU; depth 360 mm

Weight: 25 kg • 24 kg



Front view G7-1A



Front view G7-1M

Direct current combination testing device (HVDC)

The testing device, which is also available as an automatic device, allows flexible possibilities for use in manual and automated systems for the measurement of protective earth conductor and insulation resistance as well as for high-voltage testing in systems, assemblies and components. Accessory components configurable especially for this model round out the system. For more detailed technical data, please see the table on back.



Rear view G7-1A, G7-1M

	Description	Dimensions	Item no.
HVDC combi-tester	incl. touch control unit and selector panel	19" / 4 HU	G7-1A
HVDC combi-tester	for use in automated systems, incl. selector panel	19" / 4 HU	G7-1M

Extension modules for the testing devices

	Technical data	for device type	Item no.
Voltage readback	The module allows 4-wire measurement by reading back the test voltage. Two high-voltage receptacles are also built into the back wall of the device.	G7-1A; G7-1M	G7-1A E04
Additional digital outputs	Six additional digital outputs for controlling an external switching matrix.	G7-1A; G7-1M	G7-1A E06
RS232-C	Alternative interface to Ethernet interface	G7-1A; G7-1M	G7-1A E11
USB	Alternative interface to Ethernet interface	G7-1A; G7-1M	G7-1A E12
Software package	Elution Device software package	G7-1A; G7-1M	N2-1A Z7B
Device driver	On request		
Calibration	Delivery with Elabo works calibration protocol	G7-1A; G7-1M	G7-1A E99-02

The description of the accessories can be found starting on page 108.

Please also see our sample configurations starting on page 56.

Technical specifications subject to change without notice.

Device features G7-1A / G7-1M

BestPerformance

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Device	G7-1A	G7-1M		
Applications				
Manual use	•			
Automated use	•	•		
Operation				
Touch display 4.3"	•			
Interface	•	•		
Start button	•			
Reset button	•	•		
Interfaces				
Ethernet	•	•		
RS232-C	0	0		
USB	0	0		
Digital interface 1	•	•		LA _P + DUDN
Digital interface 2	0	0		Art : BURN U :5.25 kV
2 Safety circuits	•	•	11	:0.10kV/s
D/A extension module	0	0	73	₩ :0.04 kV
Connections				t : 1.0 s Tod : 0.86 s
1 test probe at back	•	•		lmax: 1.00 mA
PE sensor at back	•	•	-	
System plug at back	•	•	_	
Voltage readback on system plug	0	0	n!	laden
Warning light connection at back	•	•		
IEC connector at back	•	•	ch	Control L
Tests			CII	
High-voltage DC				
Insulation resistance measurement	•	•		
	0	0		
Voltage readback	0	0		
High-voltage testing	0.05	6 00 14/		
Test voltage	0.05 6.00 kV			
Residual ripple DC	< 0.1 % 0 1 kV/s			
Adjusting speed ramp			stsy	steme.de
Voltage setting error		1yp. 10 v		
Voltage measurement error	0.5 % of me	as. / ± 3 digit		
Current measurement ranges	F00 4	/1		
Measurement range 1 / resolution	500 μA / 1 μA			
Measurement range 2 / resolution	5.00 mA / 10 μA			
Current measurement error		as. / ± 3 digit		
Measurement of PE conductor resis		100		
Test voltage	12 VAC			
Test current	> 10 A (typ. 18 25)			
Resistance measurement range	0 500 mΩ			
Voltage drop measurement range	3			
Method of measurement		asurement		Elovibility is of
Measurement error	1.5 % of me	as. / ± 3 digit		Flexibility is of That is why tw
Insulation resistance measurement		0.00111		of equipment a
Test voltage DC	0.05 6.00 kV			ourpose, unive
Measurement range 1 / resolution	0.1 2.50 ΜΩ / 10 kΩ			pperation are
Measurement range 2 / resolution	1 25.0 ΜΩ / 100 kΩ			
Measurement range 3 / resolution	1 50 ΜΩ / 1 ΜΩ			
Accuracy of measurement	2 % of meas. / ± 5 digit		-	
Principal technical data			•	Standard
Nominal capacity	30 W		1	Technical spec
Short-circuit current	< 12 mA		1 _	
Mains connection	230 V ± 10 %; 49 61 Hz			
Dimensions	19" / 4 HU; depth 360 mm			
Weight	25 kg	24 kg		
Allowable humidity		5 % rel.		
Marking tomporature	10	EU 0C	1	

10 .. 50 °C

0.1 .. 999.9 s

min. 200 data sets





Flexibility is of prime importance with Elabo. That is why two versions of the devices in this line of equipment are available. Depending on the purpose, universal use or fully automated operation are possible.

Standard O Optional Technical specifications subject to change without notice.

Working temperature

Test time

Memory