

Ferrotest

Mobile Power Packs

The high-current Ferrotest mobile power packs provide both AC and HWDC magnetising currents from 1000 Amps up to 7100 Amps AC, and from 950 Amps to 5000 Amps DC.

All Ferrotest units are provided with following built-in standard functions: constant current magnetisation, impulse current magnetisation and demagnetisation. On all units, the test currents are indicated by a digital display and are infinitely adjustable.

FEATURES

Constant current magnetisation

Constant current is initiated upon operating a foot or hand switch. An electronic system regulates the test current from 0 to maximum in approx. 200 ms, which avoids unnecessary peak loading of the mains supply.

Impulse magnetisation

If the impulse operation is selected a sequence of single impulses is produced according to a factory-set on/off duty cycle of (1 s/1 s).

Demagnetisation

After selecting the demagnetisation setting, the test current is regulated from the set maximum value to 0 in approximately 600 ms.

SPECIFICATION COMPLIANCE

- EN 60204-1:2019-06
- EN ISO9934-3:2015-12
- DIN VDE 0100-410:2018-10
- DIN VDE 0100-540:2012



Ferrotest 10



Ferrotest 20



Ferrotest GWH 15



Ferrotest GWH 40



Ferrotest GWH 60



Ferrotest GWH 100

USER RECOMMENDATIONS

NDT Method	Magnetic Particle Testing
Accessories	Magnet Electrodes (129102) Melt-Off Electrodes: Type A (129110), Type B (129111), Type C (129112) Prod Set (056200) Dual Prod Set (056205)

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PRODUCT PROPERTIES AND PART NUMBERS

Ferrotest model		10	20	GWH 15	GWH 40	GWH 60	GWH 100
Part number		061140	061280	062150	062400	062600	062900
Effective AC*	A	1000	2000	1050	2800	4200	7100
Peak AC*	A	1400	2800	1500	4000	6000	10,000
Open circuit voltage (max)	V	3.2	30	4.5	8	10.5	25
Effective half-wave DC*	A	-	4.85	950	2000	3000	5000
Peak half-wave DC*	A	-	12	1900	4000	6000	10,000
Mains connection	V	230	400	400	400	400	3 x 400
Frequency	Hz	50	50	50	50	50	50
Power input at nominal operating current	kVA	3	12	5.5	30	60	350
Control voltage	V	12	12	12	12	12	12 / 230 AC
Relative duty cycle at 50% nominal current	%	30	30	30	30	30	30
Short circuit current (approx.)	A	3950	12750	-	-	15800	37800
Recommended quantity and length of high current cable (not included in delivery scope)	m	2 x 2.5	4 x 2.5	2 x 2.5	4 x 2.5	8 x 3	8 x 3
High current cable cross section	mm ²	70	70	95	95	95	95
Test current adjustment		infinite	infinite	infinite	infinite	infinite	infinite
Constant current control		yes	yes	yes	yes	yes	yes
Current display		digital	digital	digital	digital	digital	digital
Width	mm	290	290	290	615	700	930
Height with handle	mm	347	347	347	970	910	1100
Depth	mm	445	445	445	640	1200	1690
Weight without current cables	kg	16	32	29	125	175	500

* maximum test current measured with high current cables, external circuit 5m (6m for Ferrotest 100).