

Ferrotest

Mobile Power Packs

The high-current Ferrotest mobile power packs provide maximum AC magnetising currents from 1000 Amps up to 7100 Amps. The Ferrotest GWH mobile power packs provide both AC and HWDC; they generate test currents from 1050 Amps to 7100 Amps.

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 60204-1:2006
- EN ISO 9934-3:2002
- DIN VDE 0100-410:2007
- DIN VDE 0100-540:2012

USER RECOMMENDATIONS

NDT Method	Magnetic Particle Testing
Accessories	Magnet Electrodes (129102)

Ferrotest

PRODUCT PROPERTIES AND PART NUMBERS

Ferrotest model		10	20	40	60	100
Part number		061140	061280	061400	061600	061900
Effective AC*	A	1000	2000	2800	4200	7100
Peak AC*	A	1400	2800	4000	6000	10,000
Relative duty cycle	%	30	30	30	30	30
Open circuit voltage (max.)	V	3.2	4.85	8	10.5	22
Control voltage	V	12	12	12	12	12
Mains connection	V	230	400	400	400	400
Frequency	Hz	50	50	50	50	50
Power consumption	kVA	3	12	23	50	155
Short circuit current (approx.)	A	2875	9412	7320	12,490	12,000
Recommended quantity and length of high current cable (not included in delivery scope)	m	2 x 2.5	4 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
Test current adjustment		infinite	infinite	infinite	infinite	infinite
Constant current control		yes	yes	yes	yes	yes
Current indication		digital	digital	digital	digital	digital
Width	mm	290	290	615	700	930
Height with handle	mm	335	335	970	910	1100
Depth	mm	325	445	450	1200	1690
Weight without current cables	kg	17	32	124	174	500

* maximum test current measured with high current cables, external



FERROTEST 10



FERROTEST 20



FERROTEST 40



FERROTEST 60

Ferrotest

PRODUCT PROPERTIES AND PART NUMBERS

Ferrotest model		GWH 15	GWH 40	GWH 60	GWH 100
Part number		062150	062400	062600	062900
Effective AC*	A	1050	2800	4200	7100
Peak AC*	A	1500	4000	6000	10,000
Open circuit voltage (max)	V	4.5	8	10.5	25
Effective half-wave DC*	A	950	2000	3000	5000
Peak half-wave DC*	A	1900	4000	6000	10,000
Mains connection	V	400	400	400	400
Frequency	Hz	50	50	50	50
Power input at nominal operating current	kVA	8.8	30	60	350
Control voltage	V	12	12	12	12
Relative duty cycle	%	30	30	30	30
Short circuit current (approx.)	A	7800	8000	9000	12,000
Recommended quantity and length of high current cable (not included in delivery scope)	m	2 x 2.5	4 x 2.5	8 x 3	8 x 3
High current cable cross section	mm ²	95	95	95	95
Test current adjustment		infinite	infinite	infinite	infinite
Constant current control		x	x	x	x
Current display		digital	digital	digital	digital
Width	mm	290	630	700	930
Height with handle	mm	385	965	910	1100
Depth	mm	455	500	1200	1690
Weight without current cables	kg	33	115	175	500

* maximum test current measured with high current cables, external circuit 5 metres



FERROTEST GWH 15



FERROTEST GWH 40



FERROTEST GWH 60



FERROTEST GWH 100