

MAG 50/3HM, 50/5HM, 50/6HM

Mobile Power Packs

The MAG 50 HM mobile power packs offer a convenient solution to in-field testing. Designed to be taken to the component for inspection, the MAG 50 series is ideal for performing magnetic particle inspection of in-field parts or large heavy parts that require only moderate power.

These power packs have a constant current system that eliminates the guesswork of controlling current by means of conventional tap switches or variable transformers. The precise amount of desired current is delivered to the output circuit when the magnetising shot is initiated. The self-regulating current circuitry and solid state controls automatically compensate for variation in load impedance, such as heating or varying cable lengths. As a result, every current control setting delivers the exact amount of current indicated up to the maximum output for a particular load.



FEATURES

- Three models: 3,000 amp, 5,000 Amp and 6,000 Amp AC/HWDC
- Automatic constant current regulation
- Infinitely variable output
- True RMS and MAG-Amps calibrated analogue ammeter
- Only requires proprietary test equipment for calibrations
- Overheat protection
- Enhanced operator safety with 55 Volts to earth
- Leakage protection (RCD) on operator controls and auxiliary socket
- Switch-selectable AC/HWDC output
- Unit and remote current adjustment
- Fast electronically-controlled current decay demagnetisation
- Fused isolator
- Switchable peak reading option available

USER RECOMMENDATIONS

Prod sets	
	With switch and 4.5m cable (lug) for MAG 50/3HM (001C164)
	With switch and double 3.75m cable (lug) for MAG 50/5HM and 50/6HM (001C162)

Output cables must be ordered separately, i.e. Contact Prods, Split Coils.

PART NUMBERS

MAG 50/3HM	007E218
MAG 50/5HM	007E219
MAG 50/6HM	007E244

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PRODUCT PROPERTIES

	MAG 50/3HM	MAG 50/5HM	MAG 50/6HM
Maximum output current	3,000 Amps AC or HWDC	5,000 Amps AC or HWDC	6,000 Amps AC or HWDC
Line current draw for duration of maximum current shot	ca 190 Amps	ca 300 Amps	ca 350 Amps
Recommended external fuse size	80 Amp	125 Amp	160 Amp
Mains input cable size (30 m length or less)	35 mm ²	50 mm ²	70 mm ²
Mains electricity supply requirements	380 or 415 Volts, 50 Hz, 1 Ph	380 or 415 Volts, 50 Hz, 1 Ph	380 or 415 Volts, 50 Hz, 1 Ph
Open circuit voltage	10 Volts	10 Volts	10 Volts
Duty cycle at maximum output	1.5 seconds 'ON', 15 seconds 'OFF'	1.5 seconds 'ON', 15 seconds 'OFF'	1.5 seconds 'ON', 15 seconds 'OFF'
Unit size (width x depth x height)	900 x 680 x 1,350 mm	900 x 680 x 1,350 mm	900 x 680 x 1,350 mm
Unit weight	355 Kg	355 Kg	365 Kg

All units carry the CE mark and conform to the appropriate EU directives.

Magnetising Current vs. Cable Length

