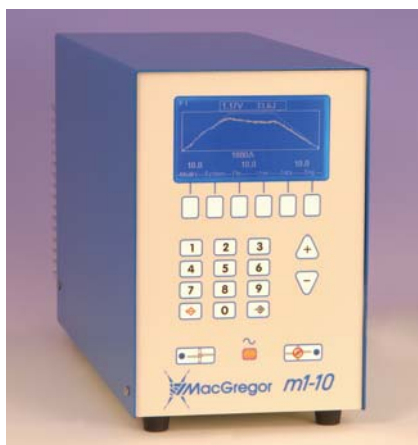


M1 SERIES BY MACGREGOR

Leading Edge Welding Technology at Entry Level Pricing



The M1 series by MacGregor Welding Systems is a compact, lightweight power supply range aimed at bringing superior technology at affordable prices. The units offer closed loop control with embedded monitoring and are an ideal option for a wide range of applications. The series consists of two models, the M1-10, offering linear technology, especially designed for precision low current applications and the M1-40 which is designed for higher current applications.



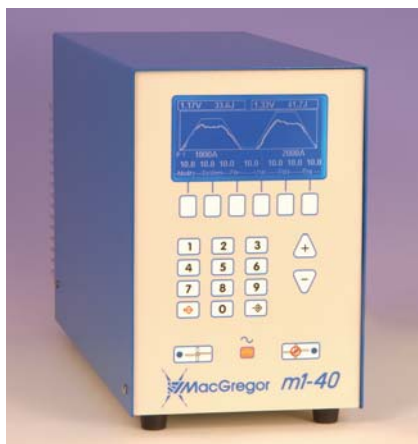
M1-10 1000 Amp Linear DC Welding Power Supply

Typical Applications

- Gold ribbon welding
- Micro circuit welding
- Solar cell assembly
- Sensor and component welding
- Detonator and Bridge wire welding

Unit Features

- Ideal for precision, low current welding applications
- Lowest cost unit available offering industry leading performance
- Ideal replacement for existing systems such as the MCW-550 and Unibond®



M1-40 4000 Amp HFDC Welding Power Supply

Typical Applications

- Miniature contact welding
- Battery and battery pack assembly
- Automotive electronics
- Wire and lead termination
- Lamp manufacture
- Conductive material welding

Unit Features

- Short pulse weld capability is ideal for conductive material joining
- Low cost unit with highest standard of performance
- Ideal replacement for capacitor discharge welding equipment

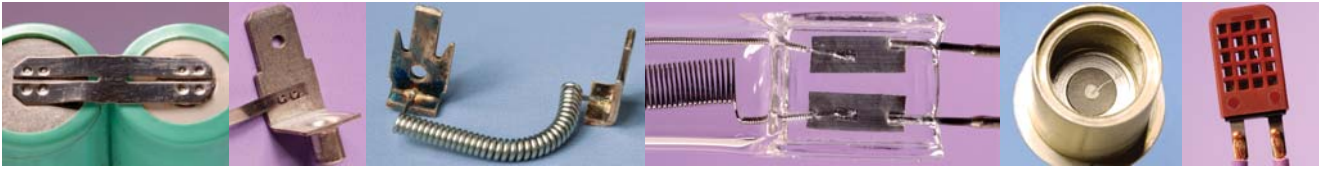
M1 Series Key Features

- Intuitive Graphical User Interface incorporating advanced waveform weld monitoring
- Closed loop control of current, voltage and power provides exceptional control of output
- Simple programming
- Single phase input power 95-260 VAC
- Single and dual pulse modes including part conditioning function
- 15 stored programmes
- Weld logging capability
- Compact, lightweight design

M1 Series

Intuitive User Interface

The advanced M1 user interface allows the user to view the welding profile in real time while remaining simple to navigate through the comprehensive menu structure.



M1 Standard Specifications

Standard Features	M1-10	M1-40
Maximum Output Current (A)	1000 Amps DC	4000 Amps DC
Maximum Output Voltage at Full Load	5 V DC at maximum current	4 V DC at maximum current
Maximum Output Power	5 KW	16 kW
Duty Cycle at:		
- 4000 Amps	-	5ms / second
- 3000 Amps	-	20 ms / second
- 2000 Amps	-	30 ms / second
- 1000 Amps	10ms / second	70 ms / second
- 500 Amps	50ms / second	
Control Modes	Current, voltage and power	Current, voltage and power
Output Accuracy	±1% of set value or ± 1 Amp	± 1% of set value or ± 20 Amps
Programmed Values		
Squeeze Time	0.1 – 999 ms	0.1 – 999 ms
Upslope Time Pulse 1	0.1 – 999 ms	0.1 – 999 ms
Peak Time Pulse 1	0.1 – 999 ms	0.1 – 999 ms
Downslope Time Pulse 1	0.1 – 999 ms	0.1 – 999 ms
Delay Time Between Pulses	0.1 – 999 m	0.1 – 999 ms
Upslope Time Pulse 2	0.1 – 999 ms	0.1 – 999 ms
Peak Time Pulse 2	0.1 – 999 ms	0.1 – 999 ms
Downslope Time Pulse 2	0.1 – 999 ms	0.1 – 999 ms
Process Monitor Limits	Voltage and Current	Voltage and Current
Input Requirements		
Input Voltage	95 – 260 VAC	95 – 260 VAC
Control I/O	Single phase	Single phase
Serial Communications	Options: RS232, RS422/485, CAN	Options: RS232, RS422/485, CAN
Dimensions		
Width (mm)	170 mm	170 mm
Height (mm)	275 mm	275 mm
Depth (mm)	470 mm	470 mm
Weight (Kg)	16.5 mm	16.5 Kg

Representative / Distributor



Approval Certificate N0:910599
Design and manufacture
of precision welding
equipment and sub-contract
micro-welding services

UK OFFICE

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