

# PULSE MAGNET POWER SUPPLIES

(MAGNETIZER)

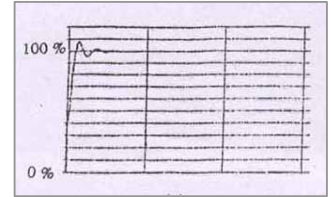
MPMCG-Series

**Introduction:**

MPMCG series of high current/low voltages pulse magnetizers are designed for achieving optimum results/high magnetic field to as much as 40 tesla in following electrometallurgical applications... 1. magnetic charging and discharging 2. magnetic stress relieving and many other magnetic related applications. These pulse magnetizer units contains programmable gauss-minute controller, space mark controller, digital volt/ampere meter with RS-232 port which enable the user to online assess/monitor the process parameter and control the quality and quantity of magnetic alignment with high degree of repeatability, accuracy all the time. Only for this reason, our pulse magnetizers are the first choice of any industrial/research application. This magnetizer could be operated in parallel. Company offers tailor made solution to custom requirement.

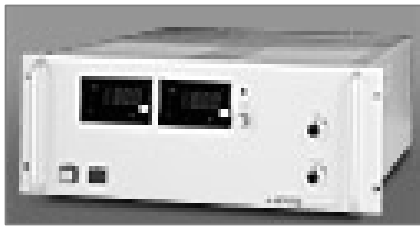
**Operating Principle:**

These pulse magnetizer incorporate the compact high frequency AC/DC converter, which ensure low voltage/current ripple. Pulse magnetizers are able to bring in uniform magnetic alignment with Improved grain structure exhibiting high level of magnetic charging/mechanical hardness at current delivered is in quantified manner which allows the restricted style growth of grain during every Pulse of current thus ensuring an improved uniform dense magnetic alignment that is further enhanced during Demagnetized period when over/under unregulated magnetic grain spread either lateral e or height wise are marginalized, thus bringing a highly dense, less porous and uniform magnetic alignment with better engineering, . properties like surface porosity, hardness ,corrosion resistance, reflectivity etc.



voltage vs time

This ability of pulse magnetizers makes it possible to achieve much high magnetic alignment in narrow and multipolar applications. With conventional magnetizer, non-uniform charging leads to uneven grain structures leading to development of differential stress zone. A portion of zone having less magnetization or more hardness gains higher crack potential due course of time and will imitate a specific form of crack there by reducing the life of magnet even. Normally such phenomenon does not exist with pulse magnetizer. On account of pulse mode periodic output of magnetizer, it is possible to achieve multi polar compact charging with high magnetic alignment, mechanical strength and better /reliable operational life.



MPMCG-0800200



MPMCG-0800500

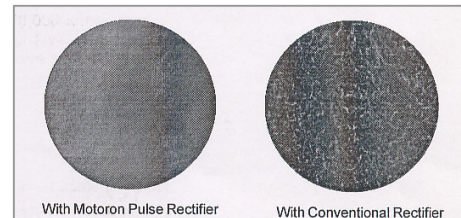


MPMCG-0800050

Model	Watts	Volts	Current	Switching frequency k.hz	cooling	Model	Watts	Volts	Current	Switching frequency k.hz	Cooling
MPMCG-0800015	1200	80	15.0	05-50	Air	MPMCG-0802000	16000	80	2000.0	05-50	Air
MPMCG-0800025	2000	80	25.0	05-50	Air	MPMCG-0804000	32000	80	4000.0	05-50	Air
MPMCG-0800050	4000	80	50.0	05-50	Air	MPMCG-0806000	48000	80	6000.0	05-50	Air
MPMCG-0800100	8000	80	100.0	05-50	Air	MPMCG-0808000	640000	80	8000.0	05-50	Air
MPMCG-0800200	16000	80	200.0	05-50	Air	MPMCG-0810000	800000	80	10000.0	05-50	Air
MPMCG-0800500	40000	80	500.0	05-50	Air	MPMCG-0815000	1200000	80	15000.0	05-50	Air
MPMCG-0801000	80000	80	1000.0	05-50	Air	MPMCG-0820000	1600000	80	20000.0	05-50	Air

**High Frequency pulse magnetizer Specification:**

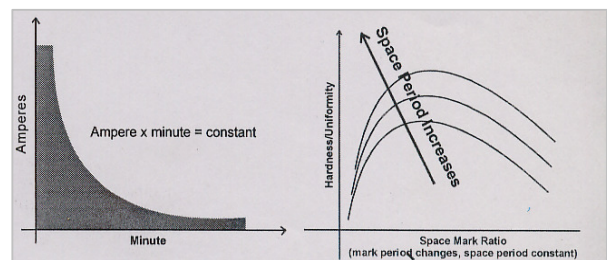
- Operating voltage 220 volts, 1/3 phase, 40-60 Hz
- Output current/voltage 0-8.0 Volts/20000 amps (max)
- Voltage/current ripple 10 micro volts-noload/ 100 micro volt-full load
- Operating frequency 5.0-200 K.Hz
- Voltage/current control accuracy 99.9% of set point
- Resolution 0.1 volts/amps D.C.
- Repeatability 100 percent
- Response time 0.5 -1.1 mill-seconds
- Interface Signal 0.0-12.0 volts D.C.[ proportional to magnetic field]
- Voltage control range 0.0-8.0 volts
- SPACE-MARK RATIO 1:3 to 1:9
- Control options 1.cascade feedback control with soft start  
2. Constant voltage/current with external adjustment.
- Display Voltage/current/gauss/space mark/gauss-second in 3½ red glow LED display
- Protection over voltage/short ckt.



**Common High Current Pulse Magnetizer dimension:**

MPMCG-0800015	08X06X06	MPMCG-0802000	14X12X12
MPMCG-0800050	10X06X06	MPMCG-0804000	16X14X24
MPMCG-0800200	12X08X08	MPMCG-0808000	18X16X36
MPMCG-0801000	12X10X10	MPMCG-0815000	20X18X48

Two numerals after MPMCG indicates voltage of pulse magnetizer and last five-digit Indicates current. All dimensions are in inches.



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