

PROGRAMMABLE PULSE HIGH VOLTAGE SUPPLIES

Feedback controlled (AC/DC)

MPPS-Series

Introduction:

MPPS series of high voltage /low current with independent polarity reversal control are designed for achieving optimum results/high precision in following applications... 1. magnetic charging and discharging 2. magnetic stress relieving. magneto forming, magneto-optical imaging/magneto-transport set-up etc automobile, bio-medical, forging, continuous casting, aerospace, heating, tribology, electrodeposition, plasma, and many research & development applications. test& measurement and many other magnetic related applications. These pulse power supplies units contains programmable space mark controller, digital volt/ampere meter with RS-232 port which enable the user to online assess/monitor the process parameter and control accordingly with high degree of repeatability, accuracy all the time. Only for this reason, our pulse power supplies are the first choice of any industrial/research application. This power supplies could be operated in parallel. Company offers tailor made solution to custom requirement.

Operating Principle:

These pulse power supplies incorporate the compact high frequency bi-directional/bipolar AC/DC AC.AC converter, which ensure low voltage/current ripple. These supplies are delivers Quantized Voltage/current pulses in CV/CI/CP mode in restricted manner with high degree of stability. This ability of pulse power supplies makes it possible to achieve some un-expected results in various applications like heating, magnetism, electro-deposition, welding much high magnetic alignment in narrow and multicolor applications. Normally such benefit does not exist with conventional power supplies.



MPPS-0800200



MPPS-0800500



MPPS-0800050

Electrical & mechanical specification of Low Voltage/High current Pulse Power Supply:

Model	Watts	Volts	Current amps	frequency K.hz	cooling	Model	Watts	Volts	Current amps	Switching frequency k.hz	Cooling
MPPS-0800015	1200	80/option	15.0	05-50	Air	MPPS-0802000	16000	80/option	2000.0	05-50	Air
MPPS-0800025	2000	80/option	25.0	05-50	Air	MPPS-0804000	32000	80/option	4000.0	05-50	Air
MPPS-0800050	4000	80/option	50.0	05-50	Air	MPPS-0806000	48000	80/option	6000.0	05-50	Air
MPPS-0800100	8000	80/option	100.0	05-50	Air	MPPS-0808000	64000	80/option	8000.0	05-50	Air
MPPS-0800200	16000	80/option	200.0	05-50	Air	MPPS-0810000	80000	80/option	10000.0	05-50	Air
MPPS-0800500	40000	80/option	500.0	05-50	Air	MPPS-0815000	120000	80/option	15000.0	05-50	Air
MPPS-0801000	80000	80/option	1000.0	05-50	Air	MPPS-0820000	160000	80/option	20000.0	05-50	Air

Electrical & mechanical specification of High Voltage/low current Pulse Power Supply:

Model	Watts	Volts k.v.	Current m.a.	Switching frequency K.hz	Cooling	Model	Watts	Volts k.v.	Current m.a.	Switching frequency K.hz	Cooling
MPPS-00102000	2000	01	2000.0	05-50	Air	MPPS-0202100	2000	20	0100.0	05-50	Air
MPPS-00201000	2000	02	1000.0	05-50	Air	MPPS-0204100	2000	20	0100.0	05-50	Air
MPPS-00400300	1200	04	0300.0	05-50	Air	MPPS-0406050	2000	40	0050.0	05-50	Air
MPPS-00400200	0800	04	0200.0	05-50	Air	MPPS-0400050	2000	40	0050.0	05-50	Air
MPPS-00800200	16000	08	0200.0	05-50	Air	MPPS-0600050	3000	60	0050.0	05-50	Air
MPPS-00800200	40000	08	0200.0	05-50	Air	MPPS-0805050	4000	80	0050.0	05-50	Air
MPPS-01500100	1500	15	0100.0	05-50	Air	MPPS-0800050	4000	80	0050.0	05-50	Air
MPPS-0200100	1000	20	0100.0	05-50	Air	MPPS-0800050	8000	80	0100.0	05-50	Air

High Frequency pulse power supplies Specification:

Operating voltage 220 volts, 1/3 phase, 40-60 Hz
 Output current/voltage as above
 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
 Duty cycle: 0-100%
 Response time 0.5-1.1 mill-seconds
 Interface Signal 0.0-12.0 volts D.C. [proportional to electric field]
 Voltage control range 0.0-8.0 volts
 SPACE-MARK RATIO 1:3 to 1:9
 Pulse-on time (Ton): 0.1 μ s to 1000 μ s-continuous [in different models/applications]
 Pulse-off time (Toff): 1 ms to 1000 ms-continuous (in different models/applications)
 Control options
 1. cascade feedback control with soft start
 2. Constant voltage/current with external adjustment.
 3. Independent forward/reverse control.

Display: Voltage/current/gauss/space mark in 5/2 red glow LED display

Protection over voltage/short ckt.

Interface: RS-232

Two numerals after MPPS indicates voltage of pulse power supplies and last five-digit indicates current. All dimensions are in inches.



MPPS-0820000

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Electrical specification for Pulse supplies for Electro-static precipitators:

Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling	Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling
MPPR-00800015	120.0	8.0	15.0	05-50	Air	MPPR-00802000	16000.0	8.0	2000.0	05-50	Air
MPPR-00800025	200.0	8.0	25.0	05-50	Air	MPPR-00804000	32000.0	8.0	4000.0	05-50	Air
MPPR-00800050	400.0	8.0	50.0	05-50	Air	MPPR-00806000	48000.0	8.0	6000.0	05-50	Air
MPPR-00800100	800.0	8.0	100.0	05-50	Air	MPPR-00808000	64000.0	8.0	8000.0	05-50	Air
MPPR-00800200	1600.0	8.0	200.0	05-50	Air	MPPR-00810000	80000.0	8.0	10000.0	05-50	Air
MPPR-00800500	4000.0	8.0	500.0	05-50	Air	MPPR-00815000	120000.0	8.0	15000.0	05-50	Air
MPPR-00801000	8000.0	8.0	1000.0	05-50	Air	MPPR-00820000	160000.0	8.0	20000.0	05-50	Air

Electrical specification for Pulse power supplies for Ozone generators:

Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling	Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling
MPAR-04000015	120.0	40.0	15.0	05-50	Air	MPAR-04002000	16000.0	40.0	2000.0	05-50	Air
MPAR-04000025	200.0	40.0	25.0	05-50	Air	MPAR-04004000	32000.0	40.0	4000.0	05-50	Air
MPAR-04000050	400.0	40.0	50.0	05-50	Air	MPAR-04006000	48000.0	40.0	6000.0	05-50	Air
MPAR-04000100	800.0	40.0	100.0	05-50	Air	MPAR-04008000	64000.0	40.0	8000.0	05-50	Air
MPAR-04000200	1600.0	40.0	200.0	05-50	Air	MPAR-04010000	80000.0	40.0	10000.0	05-50	Air
MPAR-04000500	4000.0	40.0	500.0	05-50	Air	MPAR-04015000	120000.0	40.0	15000.0	05-50	Air
MPAR-04001000	8000.0	40.0	1000.0	05-50	Air	MPAR-04020000	160000.0	40.0	20000.0	05-50	Air

Electrical specification for Pulse Power supplies for Electrostatic S.P.M.ISOLATORS:

Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling	Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling
MPELR-04001000	004000.0	40.0	1000.0	05-50	Air	MPELR-10200000	02000000	10.0	020000.0	05-50	Air
MPELR-04002000	008000.0	40.0	2000.0	05-50	Air	MPELR-10500000	05000000	10.0	050000.0	05-50	Air
MPELR-04004000	016000.0	40.0	4000.0	05-50	Air	MPELR-10800000	08000000	10.0	080000.0	05-50	Air
MPELR-04006000	048000.0	40.0	6000.0	05-50	Air	MPELR-10100000	01000000	10.0	100000.0	05-50	Air
MPELR-04008000	048000.0	40.0	8000.0	05-50	Air	MPELR-10200000	02000000	10.0	200000.0	05-50	Air
MPELR-04010000	320000.0	40.0	10000.0	05-50	Air	MPELR-20400000	08000000	20.0	400000.0	05-50	Air
MPELR-04015000	600000.0	40.0	15000.0	05-50	Air	MPELR-20800000	16000000	20.0	800000.0	05-50	Air

Electrical specification for Pulse Power supplies for Nano-particle generation:

Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling	Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling
MEMR-0400100	04000.0	40.0	00100.0	05-50	Air	MEMR-006005000	300000	060.0	05000.0	05-50	Air
MEMR-0400200	08000.0	40.0	00200.0	05-50	Air	MEMR-006008000	480000	060.0	08000.0	05-50	Air
MEMR-0400400	16000.0	40.0	00400.0	05-50	Air	MEMR-008010000	800000	080.0	10000.0	05-50	Air
MEMR-0400600	24000.0	40.0	00600.0	05-50	Air	MEMR-010020000	2000000	080.0	20000.0	05-50	Air
MEMR-0400800	32000.0	40.0	0800.0	05-50	Air	MEMR-010040000	4000000	100.0	40000.0	05-50	Air
MEMR-0401000	40000.0	40.0	01000.0	05-50	Air	MEMR-010080000	8000000	100.0	80000.0	05-50	Air
MEMR-0401500	60000.0	40.0	01500.0	05-50	Air	MEMR-080000100	8000000	800.0	00100.0	40-80	Air
MEMR-006002000	016000	060.0	02000.0	05-50	Air	MEMR-080000200	16000000	800.0	00200.0	40-80	Air

Electrical specification for Pulse Rectifier for Surface adhesion improvement:

Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling	Model	Watts	Volts K.v	Current m.a.	Switching frequency K.hz	Cooling
MEDMR-0600100	04000.0	60.0	00100.0	05-50	Air	MEDMR-008005000	250000	080.0	05000.0	05-50	Air
MEDMR-0600200	08000.0	60.0	00200.0	05-50	Air	MEDMR-008008000	480000	080.0	08000.0	05-50	Air
MEDMR-0600400	16000.0	60.0	00400.0	05-50	Air	MEDMR-008010000	800000	080.0	10000.0	05-50	Air
MEDMR-0600600	24000.0	60.0	00600.0	05-50	Air	MEDMR-010020000	2000000	100.0	20000.0	05-50	Air
MEDMR-0800080	32000.0	80.0	0800.0	05-50	Air	MEDMR-010040000	4000000	100.0	40000.0	05-50	Air
MEDMR-0801000	40000.0	80.0	01000.0	05-50	Air	MEDMR-010080000	8000000	100.0	80000.0	05-50	Air
MEDMR-0801500	60000.0	80.0	01500.0	05-50	Air	MEDMR-020000100	8000000	200.0	00100.0	40-80	Air
MEDMR-1002000	016000	80.0	02000.0	05-50	Air	MEDMR-020000200	16000000	200.0	00200.0	40-80	Air

Common Pulse Rectifier dimension :(INCH):

Electro-static precipitator	Electro-static purifier	Nano-particle generation	Surface adhesion
MPPR-08000015	MPAR-04000015	MPER-0400005	MEMR-04000025
MPPR-08000025	MPAR-04000025	MPER-0400010	MEMR-04000050
MPPR-08000050	MPAR-04000050	MPER-0400015	MEMR-0400100
MPPR-0800100	MPAR-04000100	MPER-0400025	MEMR-0600200
MPPR-0800200	MPAR-04000200	MPER-0400050	MEMR-0600400
MPPR-0800400	MPAR-04000400	MPER-0400100	MEMR-0801000
MPPR-0801000	MPAR-04001000	MPER-0400200	MEMR-0901500
MPPR-0802000	MPAR-04002000	MPER-0400400	MEMR-1002000
MPPR-0805000	MPAR-04005000	MPER-0400800	MEMR-1004000
MPPR-0810000	MPAR-05010000	MPER-0402000	MEDMR-1001000
MPPR-0820000	MPAR-05020000	MPER-0404000	MEDMR-0202000
MPPR-0850000	MPAR-05050000	MPER-0408000	MEDMR-1002000

THREE numerals after product code indicate volt and remaining indicate current. All dimensions are in inches.

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