

PROGRAMMABLE HIGH FREQUENCY POWER SUPPLIES

(Medium/High/Radio –Frequency & high/low current)

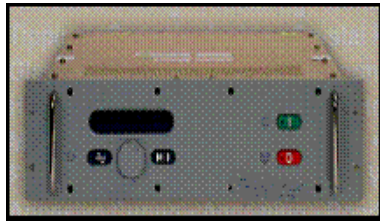
MULPS-Series

Introduction:

MULPS series of high frequency supplies (high/low powers) are designed for achieving optimum results in following electrometallurgical applications, biomedical, othopaedics, MEMS, space, heating, psychological research, high energy physics, bio-metric, Welding, local surface reliveing etc. These high frequency high frequency supplies unit contains programmable Ampere-minute controller, digital volt/ampere meter with RS-232 port which enable the user to online assess/monitor the process parameter and control the quality. Only for this reason, our high frequency supplies are the first choice of any industrial/research application. This high frequency supplies could be operated in parallel. Company offers tailor made solution to custom requirement.

Operating Principle:

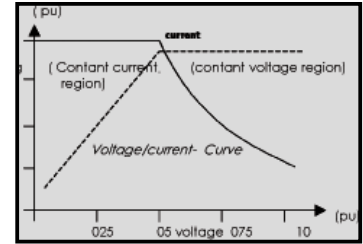
These high frequency supplies incorporate the compact high frequency ac/ac converter and supplies are force-commutated high frequency I.G.B.T./MOSFET Controlled converters working in feedback cascade mode. Output voltage is controlled By feedback PWM control technique and may be set to any voltage constrained by adjustable internal current limit, with consistent regulation over wide load range and without any hunting with fail proof protection against either over/under voltage. These compact supplies may be operated in parallel along with facility of parallel port/ serial port to enable it to interface with computer to achieve any real time voltage & current profile.



MULPS-0800200



MULPS-0800500



MULPS-0800050

Electrical specification for Ultra-low Frequency Power Supplies:

Frequency range: 0.05-5.00 Hz

Model	Watts	Volts/option	Current amps	frequency hz	cooling	Model	Watts	Volts option	current	frequency hz	Cooling
MMLFS-0400015	00600	40.0	0015.0	0.05-5.00	Air	MMLFS-0800020	16000	800	20	0.05-5.00	Air
MMLFS-0400025	10000	40.0	0025.0	0.05-5.00	Air	MMLFS-0800040	32000	800	40	0.05-5.00	Air
MMLFS-0400050	20000	40.0	0050.0	0.05-5.00	Air	MMLFS-0800060	48000	800	60	0.05-5.00	Air
MMLFS-0400100	40000	40.0	0100.0	0.05-5.00	Air	MMLFS-0800080	64000	800	80	0.05-5.00	Air
MMLFS-0400200	80000	40.0	0200.0	0.05-5.00	Air	MMLFS-0800100	80000	800	10	0.05-5.00	Air
MMLFS-0400500	20000	40.0	0500.0	0.05-5.00	Air	MMLFS-0800150	12000	800	15	0.05-5.00	Air
MMLFS-0401000	40000	40.0	1000.0	0.05-5.00	Air	MMLFS-0800200	16000	800	20	0.05-5.00	Air

Two numerals after MMLFS indicates voltage of high frequency supplies and last five digit indicates current. All dimensions are in inches.

High Frequency high frequency supplies Specification:

- Operating voltage 220 volts, 1/3 phase, 40-60 Hz
- Output current/voltage 0-10-1000 VOLT RMS/0100 amps (max)
- Voltage/current ripple 10 micro volts-noload/ 100 micro volt-full load
- Operating frequency 0.01 -2000 K.Hz in different model as in data sheet
- 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 milli-seconds
- Interface Signal 0.0-12.0 volts D.C. (proportional to output voltage)
- 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. Contant voltage/current with external adjustment.
- Display Voltage/current/space mark/ampere-minute in 3½ red glow LED display
- Protection over voltage/short ckt.
- Additional: RS-232/USB



MMRFS-020005



MMRFS-060050



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PROGRAMMABLE HIGH FREQUENCY POWER SUPPLIES

(Medium/High/Radio -Frequency)

MMLFS-Series

Electrical specification for Low-Frequency power supplies:

Frequency range: 005.0000-00100.00

Hz

Model	Watts	Volts	Current	Frequency Hz	cooling	Model	Watts	Volts	Current	Frequency Hz	Cooling
MLFPS-010001	00100	100	001.0	05-100	Air	MLFPS-040002	00800	400	002.0	05-100	Air
MLFPS-010002	00200	100	002.0	05-100	Air	MLFPS-040004	01600	400	004.0	05-100	Air
MLFPS-010005	00500	100	005.0	05-100	Air	MLFPS-040006	02400	400	006.0	05-100	Air
MLFPS-020010	02000	200	010.0	05-100	Air	MLFPS-040008	03200	400	008.0	05-100	Air
MLFPS-020020	04000	200	020.0	05-100	Air	MLFPS-080010	00800	800	010.0	05-100	Air
MLFPS-020050	10000	200	050.0	05-100	Air	MLFPS-080015	01200	800	015.0	05-100	Air
MLFPS-020100	20000	200	100.0	05-100	Air	MLFPS-080020	01600	800	020.0	05-100	Air

Electrical specification for Low-Medium Frequency power supplies:

Frequency range: 0100.0-01000.0

Hz

Model	Watts	Volts/Option	Current 10	Switching frequency hz	Cooling	Model	Watts	Volts/Option	Current	frequency Hz	Cooling
MMLFS-400010	04000.0	400	0010.0	0100-1000	Air	MMLFS-060010	06000	0600	010	0100-1000	Air
MMLFS-400020	08000.0	400	0020.0	0100-1000	Air	MMLFS-060030	18000	0600	030	0100-1000	Air
MMLFS-400040	16000.0	400	0040.0	0100-1000	Air	MMLFS-080050	40000	0800	050	0100-1000	Air
MMLFS-400060	24000.0	400	0060.0	0100-1000	Air	MMLFS-800100	80000	0800	100	0100-1000	Air
MMLFS-400080	32000.0	400	080.0	0100-1000	Air	MMLFS-100010	10000	1000	010	0100-1000	Air
MMLFS-400100	40000.0	400	0100.0	0100-1000	Air	MMLFS-100020	20000	1000	020	0100-1000	Air
MMLFS-400150	60000.0	400	0150.0	0100-1000	Air	MMLFS-200010	20000	2000	010	0100-1000	Air
MMLFS-600200	120000.0	600	0200.0	0100-1000	Air	MMLFS-200020	40000	2000	020	0100-1000	Air

Electrical specification for High Frequency power supplies:

Frequency range: 01000.0-100.00 K.Hz

Model	Watts	Volts/option	Current 10 ⁻¹	frequency k.hz	Cooling	Model	Watts	Volts/option	Current 10 ⁻¹	frequency k.hz	Cool
MHFPS-050005	000250	050.0	0005.0	05-50	Air	MHFPS-100005	00050	100.0	0005.0	05-50	Air
MHFPS-050008	000400	050.0	0008.0	05-50	Air	MHFPS-100008	00084	100.0	0008.0	05-50	Air
MHFPS-050001	000500	050.0	0010.0	05-50	Air	MHFPS-200010	00200	200.0	0010.0	05-50	Air
MHFPS-100002	002000	100.0	0020.0	05-50	Air	MHFPS-200020	00400	200.0	0020.0	05-50	Air
MHFPS-100004	004000	100.0	0040.0	05-50	Air	MHFPS-200040	00800	200.0	0040.0	05-50	Air
MHFPS-100008	008000	100.0	0080.0	05-50	Air	MHFPS-200100	02000	200.0	0100.0	05-50	Air
MHFPS-100010	010000	100.0	0100.0	40-80	Air	MHFPS-400010	00400	400.0	0010.0	40-80	Air

Electrical specification for Ultra-low Frequency/low current Power Supplies:

Frequency range: 0.05-5.00 Hz

Model	Watts	Volts/option	Current X10	frequency hz	cooling	Model	Watts	Volts	Current	frequency hz	Cooling
MMLFS-0400015	00600	40.0	0015.0	0.05-5.00	Air	MMLFS-0800020	16000	800	200	0.05-5.00	Air
MMLFS-0400025	10000	40.0	0025.0	0.05-5.00	Air	MMLFS-0800040	32000	800	400	0.05-5.00	Air
MMLFS-0400050	20000	40.0	0050.0	0.05-5.00	Air	MMLFS-0800060	48000	800	600	0.05-5.00	Air
MMLFS-0400100	40000	40.0	0100.0	0.05-5.00	Air	MMLFS-0800080	64000	800	800	0.05-5.00	Air
MMLFS-0400200	80000	40.0	0200.0	0.05-5.00	Air	MMLFS-0800100	80000	800	100	0.05-5.00	Air
MMLFS-0400500	20000	40.0	0500.0	0.05-5.00	Air	MMLFS-0800150	12000	800	1500	0.05-5.00	Air
MMLFS-0401000	40000	40.0	1000.0	0.05-5.00	Air	MMLFS-0800200	16000	800	2000	0.05-5.00	Air

Electrical specification for Medium Frequency/high voltage & low current Power Supplies: Frequency range: 0.05-5.00 Hz

Model	Power watts	Volts K.V./option	Current m.a./option	frequency hz	cooling	Model	Power watts	Volts K.V.	Current m.a.	frequency hz	Cooling
MMHVPS-0509993	500.0	0.5	1000.0	5000/option	Air/oil	MMHVPS-0300103	500.0	30.0	010.0	5000/option	Air/oil
MMHVPS-0301003	300.0	03.0	100.0	5000/option	Air/oil	MMHVPS-0300203	500.0	30.0	020.0	5000/option	Air/oil
MMHVPS-0500403	200.0	05.0	040.0	5000/option	Air/oil	MMHVPS-0500103	500.0	50.0	010.0	5000/option	Air/oil
MMHVPS-0501003	500.0	05.0	100.0	5000/option	Air/oil	MMHVPS-0500203	1000.0	50.0	020.0	5000/option	Air/oil
MMHVPS-0500203	200.0	10.0	020.0	5000/option	Air/oil	MMHVPS-0500403	2000.0	50.0	040.0	5000/option	Air/oil
MMHVPS-0100503	500.0	10.0	050.0	5000/option	Air/oil	MMHVPS-0501003	5000.0	50.0	100.0	5000/option	Air/oil
MMHVPS-0101003	1000.0	10.0	100.0	5000/option	Air/oil	MMHVPS-1000103	1000.0	100.0	10.0	5000/option	Air/oil
MMHVPS-0105003	5000.0	10.0	500.0	5000/option	Air/oil	MMHVPS-1000203	2000.0	100.0	020.0	5000/option	Air/oil
MMHVPS-0109993	10,000.0	10.0	1000.0	5000/option	Air/oil	MMHVPS-1000503	5000.0	100.0	050.0	5000/option	Air/oil
MMHVPS-0200503	1000.0	20.0	050.0	5000/option	Air/oil	MMHVPS-1001003	10000.0	100.0	100.0	5000/option	Air/oil
MMHVPS-0201003	2000.0	20.0	100.0	5000/option	Air/oil	MMHVPS-2002003	10000.0	200.0	050.0	5000/option	Air/oil
MMHVPS-0205003	10000.0	20.0	500.0	5000/option	Air/oil	MMHVPS-2002003	20000.0	200.0	100.0	5000/option	Air/oil
MMHVPS-0209993	20,000.0	20.0	1000.0	5000/option	Air/oil	MMHVPS-4000503	20,000.0	400.0	050.0	5000/option	Air/oil

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