

HIGH POWER ELECTRONIC RELAY

(DC/A.C. & A.C./A.C.)

MSSRA-Series

Introduction:

MSSRA series of high power Electronic relays are available upto 1000 amps /11,000volt /(15.0 to 100,000 watts), in more than 50 different models for high speed power chopping for controlling any process variable like temperature, flow, level etc.virtually offering solutions to electrical insulation, pollution control, electrostatic precipitators, Petrochemical industry, organic/inorganic chemical, heavy electrical/mechanical industries, high voltage testing, smart sensors and actuators, electrorheology, biotechnology, welding/induction heating,, solids state physics application and many uncountable defense/nuclear applications. Updated design topology ensures better controllability and efficiency with additional integrated power/voltage and frequency control/protection. These power supplies may operate in parallel to make it more redundant. Company offers tailor made solution to custom requirement.

Operating Principle:

These high voltage supply current/low voltage are line commutated S.C.R. or force commutated high frequency SCR/I.G.B.T. controlled converters working in feedback cascade mode. These relay operates at enabling firing signal generated by controller



MSSRA-020010



MSSRA-050020



MSSRA-100100

ELECTRICAL/MECHANICAL SPECIFICATIONS OF

High power AC/AC or D.C./D.C. S.S.R.

Model	Power k.watt	Volts K.V./10	Current AMPS	Repetition rate pulse/sec maximum	cooling	Model	Power k.watt	Volts K.V./10	Current AMPS	Repetition rate pulse/sec maximum	cooling
MSSRA-0020051	05.50	220	025	100	Air/oil	MSSRA-0050501	05.0	200	025	100	05.50
MSSRA-0050051	011.0	220	050	100	Air/oil	MSSRA-0100501	05.0	200	025	100	Air/oil
MSSRA-0020101	022.0	220	100	100	Air/oil	MSSRA-0200501	010.0	200	050	100	Air/oil
MSSRA-0050101	044.0	220	200	100	Air/oil	MSSRA-0500501	020.0	200	100	100	Air/oil
MSSRA-0100101	088.0	220	400	100	Air/oil	MSSRA-0101001	040.0	200	200	100	Air/oil
MSSRA-0200101	176.0	220	800	100	Air/oil	MSSRA-0201001	080.0	200	400	100	Air/oil
MSSRA-1000201	220.0	220	1000	100	Air/oil	MSSRA-0501001	160.0	200	800	100	Air/oil
MSSRA-0100201	825.0	3300	025	100	Air/oil	MSSRA-1001001	220.0	200	1000	100	Air/oil
MSSRA-0200201	1650.0	3300	050	100	Air/oil	MSSRA-1002001	250.0	1000	025	100	Air/oil
MSSRA-1000201	3300.0	3300	100	100	Air/oil	MSSRA-2002001	500.0	1000	050	100	Air/oil
MSSRA-2000201	6600.0	3300	200	100	Air/oil	MSSRA-2004001	1000.0	1000	100	100	Air/oil

Voltage/current specs of above power supplies are of regular production, however company is regularly manufacturing power supplies of higher voltage/current options.

High power DC/DC or A.C./A.C. power supply Specification:

- Operating voltage 1.0-200.0 kV D.C. or 11,000 K.V. A.C. / 5000.0 kilo watts
- Output current 0.0-400,000 m.a (max)
- Voltage/current control accuracy 99.9% of set point
- Resolution 0.1 volts/amps D.C.
- Regulation: 0.1/0.01 of set point(voltage/current)
- Repeatability 100 percent
- Response time 0.5 -1.1 mill-seconds
- Interface Signal 0.0-12.0 volts D.C. proportional to output voltage
- Step down ratio(voltage/current) 0-100%
- Control options 1.cascade feedback control with soft start 2.Ratio control (option)
2. Contant voltage/current with external adjustment.
- Display ; Voltage/current/kilowatt in 3½ red glow LED display
- Protection over voltage/short ckt.

NOTE: These power supplies are also offered in pulse mode.

High power DC/DC or A.C./A.C. power supply Specification:

MSSRA-002005	08X06X06	MSSRA-005050	14X12X12
MSSRA-005005	10X06X06	MSSRA-010050	16X14X14
MSSRA-002010	12X08X08	MSSRA-020050	18X16X16
MSSRA-005010	12X10X10	MSSRA-050050	20X18X18
MSSRA-010010	12X10X10	MSSRA-010100	20X18X18
MSSRA-020010	12X10X10	MSSRA-020100	20X18X18
MSSRA-050010	08X06X06	MSSRA-050200	14X12X12
MSSRA-010020	10X06X06	MSSRA-100100	16X14X14
MSSRA-020020	18X16X14	MSSRA-100200	18X16X16



MSSRA-050050

Three numerals after MSSRA indicates power x100 of power supply and last three digit Indicates K.VOLTS. last numeral 01 is D.C./A.C. Converter and 02 corresponds to last numeral 01 is D.C./A.C. Converter and 02.All dimensions are in inches. Above models are in current range of production, however company Undertake any tailor made specification power supply.

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