

Datasheet

Regulated High Voltage Modules



Description:

- Regulated high voltage modules designed for OEM applications.
- Different maximum voltage ratings up to 30kV with positive or negative polarity
- Maximum 30W, 60W, 90W or 120W output power
- The output voltage is adjustable between 0% and 100% of the rated output.

Features:

- > 115V AC or 230V AC input
- Soft start
- Automatic crossover from constant-voltage to constant-current regulation and vice versa
- Spark protection
- High voltage output 100% short-circuit proof to ground
- PLC controls and monitors; signals are scaled 0-10V DC equals 0-100% of full scale

Options:

- Second high voltage output: E.g. for use in electrostatic filters various modules are available with a second voltage output for the collector. The module automatically controls the high voltage at flashover in the filter
- Extended interface with ON/OFF-, temperature and spark monitoring
- IDC interface connector for ribbon cable connection

Typical Applications:

- > Electrostatic filters
- Electrostatic charging and discharging
- Capacitor Charging Systems
- lon getter pumps
- Etc.

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Datasheet

Regulated High Voltage Modules

Technical Specifications

Input and Output					
Input:	N1 = 115VAC or N2 = 230VAC (-10 %, +10%) 50 to 60 Hz				
	30W 60W 90W 120W				
	N1 max. 0.6A max. 1.2A				
	N2 max. 0.35A max. 0.6A max. 0.8A max. 1.2A				
Output:	Continuous adjustment from 0% to 100% of the rated voltage and current by external 0 to 10V signals. Automatic crossover from constant-voltage to constant-current regulation. Accuracy better than 2% of the rated voltage.				
	Available with either positive or negative polarity with respect to chassis ground.				
	respect to chassis ground.				
Efficiency:	Typical values at nominal conditions:				
Efficiency:	·				

Special Features	
Soft Start:	At startup, recovery from sparks or short circuit the modules provide controlled ramp up to prevent dangerous voltage overshooting. At full load the output voltage will rise in approximately 150 ms to the rated voltage (other ramp-up times available on request).
Spark Sensing:	Internal circuitry senses sparks caused by external discharges. In case of a spark the module will turn off for approximately one second and will then ramp up automatically.

Date:	REMO-HSE Hochspannungselektronik GmbH, Straubinger Str. 28, D - 94372 Rattiszell	Page
2017-04	Tel.: +49 (0) 9964 / 6406 - 0 * Fax: +49 (0) 9964 / 6406 - 20 * Email: info@remo-hse.de	2/5



Datasheet

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Environmental Data

Operating Temperature Range: 0 to +40°C

Storage Temperature Range: -25 to +70°C

Humidity: 80% maximum relative humidity up to +31°C, reducing

linearly to 50% at +40°C

Non condensing (ref. EN61010-1)

Altitude: 0 to 2000m

PLC Controls and Monitors

Controls (Input Resistance: approx 10kOhm)

Voltage Demand: 0 to 10V DC demands 0 to 100% of rated output voltage

Current Demand: 0 to 10VDC demands 0 to 100% of rated output current

High Voltage ON/OFF 24VDC (10...30VDC) active high

In case of over-voltage, over-current or over-temperature the module shuts down and the high voltage must be turned off

before restart

Monitors (Output Current: max 1mA)

Voltage: 0 to 10V DC for 0 to 100% of rated voltage

Current: 0 to 10V DC for 0 to 100% of rated current

Protection

- Over-voltage and over-current limitation
- ❖ High voltage output 100 % short-circuit-proof to ground
- Spark protection: In case of a spark the module will turn off for approximately one second and will then ramp up automatically.
- ❖ In case of over-voltage, over-current or over-temperature the module shuts down and the high voltage must be turned off before restart.

Additional Information

Recovery Time: Approximately 15 seconds following a disconnection of

mains supply

EMC: This high voltage module is intended for installation as part

of a system. Basic EMC filtering is provided.

Date:	REMO-HSE Hochspannungselektronik GmbH, Straubinger Str. 28, D - 94372 Rattiszell	Page
2017-04	Tel.: +49 (0) 9964 / 6406 - 0 * Fax: +49 (0) 9964 / 6406 - 20 * Email: info@remo-hse.de	3/5



Datasheet

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Mechanical Data

Housing Aluminum case

Dimensions: Up to 15 kV output voltage: 86 mm wide, 60 mm high,

178 mm deep (without fixing points)

Above 15 kV output voltage: 86 mm wide, 90 mm high,

178 mm deep (without fixing points)

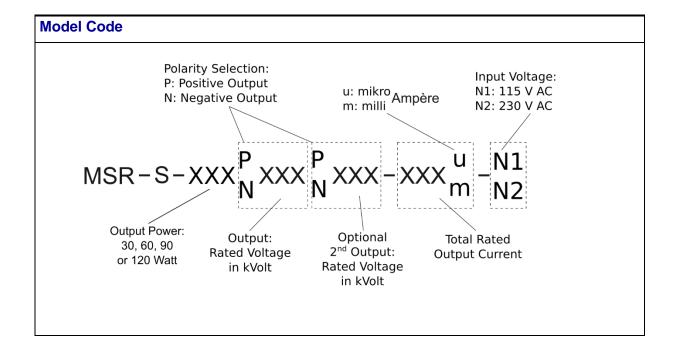
Weight: Approx 0.7 to 1.5kg (depending on output voltage)

Classification: IP 20

Ventilation: Cooling vents (convection)

Options

- Second high voltage output (fixed ratio compared to first high voltage output e.g. 50%)
- Extended interface with ON/OFF-, temperature and spark monitoring
- ❖ IDC interface connector for ribbon cable connection
- Holder for top-hat rail
- ❖ In case of over-voltage, over-current or over-temperature the module shuts down and must be disconnected from mains supply before resetting.

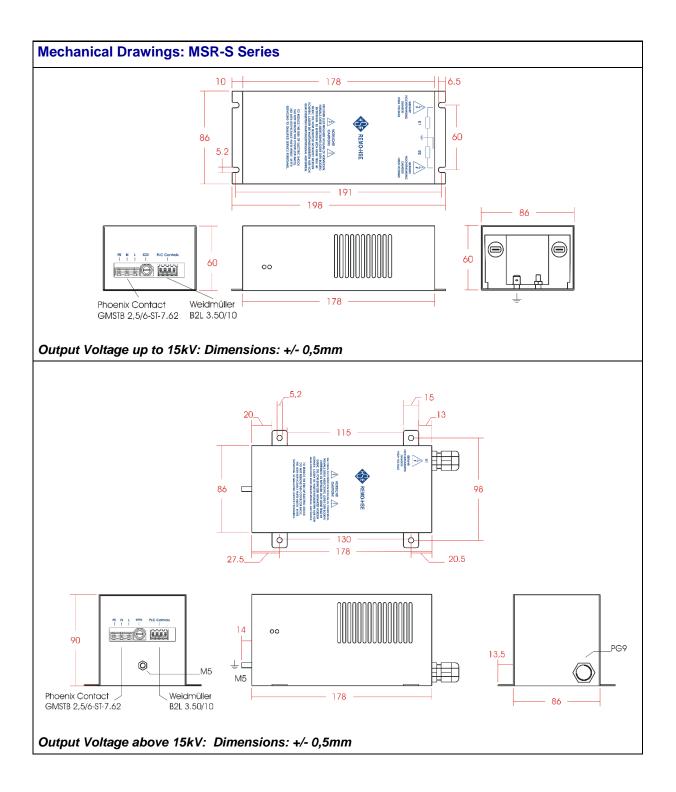


Date:	REMO-HSE Hochspannungselektronik GmbH, Straubinger Str. 28, D - 94372 Rattiszell	Page
2017-04	Tel.: +49 (0) 9964 / 6406 - 0 * Fax: +49 (0) 9964 / 6406 - 20 * Email: info@remo-hse.de	4/5



Datasheet

Regulated High Voltage Modules



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Date:	REMO-HSE Hochspannungselektronik GmbH, Straubinger Str. 28, D - 94372 Rattiszell	Page	ì
2017-04	Tel.: +49 (0) 9964 / 6406 - 0 * Fax: +49 (0) 9964 / 6406 - 20 * Email: info@remo-hse.de	5/5	i