

Modular type Power Supply for Metal Surface Treatment

MRM series



First in Japanese manufacturer*! Developed Modular-type Power Supply for Metal Surface Treatment

* As power supply for Metal Surface Treatment that batch control multiple power modular by control modular.



Remote control pendant (Option)

◎ Flexible output current capacity

Rated output current can be increased by parallel connection (expansion) the power modular.

◎ Adaptable to input voltage in worldwide

Input voltage 200V - 240V / 380V - 480V are available.
Usable in wide range of countries from North/South America to Japan, Asia etc.

◎ Improved reliability

- (1) Predetects cooling fan failure and reduces unexpected shutdown during the line operation.
- (2) Isolated electronic circuits and major components from outer air.

◎ Usable to wide variety of applications

Enables to set for CV/CC control mode and usable for various applications.

◎ Capable to control remotely or link with other communication devices

Analog signals, RS-485 communication are equipped as standard and other open field networks are also available as an option.

◎ Supports operating modes with various output waveforms

Features DC mode, pulse output as standard. GOLDWAVE (free waveform) modes are also available as an option.

◎ DC integrating Ah meter function

Enable to set Ah meter value for plating solution control by using remote controller (option).

* For details, please inquire to our sales staff in charge.

MRM Series Modular type Power Supply for Metal Surface Treatment

Common Specifications

Model		MRM-PM-15005
Power Modular		
Input Specifications	Voltage Tolerance	3-phase 200V-240V/380V-480V 50Hz/60Hz
Input Capacity		10.5kVA
Output Specifications		15V/500A
Output	Control	Constant current or Constant voltage
	Accuracy	Both voltage/current Rated value±1%(FS) or below
Accuracy (Warranty) Range		Both voltage/current 10% to 100% of rated value
External dimensions		Width·Height·Depth 435mm×150 mm×550 mm
Mass (Approx.)		24kg
Cooling Method		Forced air cooling

Product List

Model		MRM-15005	MRM-15010	MRM-15015	MRM-15020	MRM-15025	MRM-15030
Output Specifications		15V/500A	15V/1000A	15V/1500A	15V/2000A	15V/2500A	15V/3000A
Power Modular		1unit	2units	3units	4units	5units	6units
Rack dimension	MRM-RK W×H×D	3 stacks configuration 520mm×835mm×570mm			6 stacks configuration 520mm×1370mm×570mm		
		Mass (Approx.)	66kg	92kg	116kg	152kg	178kg
Input Specifications		3-phase 200V-240V/380V-480V 50Hz/60Hz					
Voltage Tolerance		Both voltage/current Rated value±1%(FS) or below					
Input Capacity		10.7kVA	21.2kVA	31.7kVA	42.2kVA	52.7kVA	63.2kVA
Output	Control	Constant current or Constant voltage					
	Accuracy	Both voltage/current Rated value±1%(FS) or below					
	Accuracy (Warranty) Range	Both voltage/current 10% to 100% of rated value					

○1 control modular enables to control up to 8 units (of power modular).

Functions List

Model	Function	●:Standard ○:Optional	
		MRM-CM	I/O signal
MRM-PM-15005	External start/stop	●	Contact input
	CV/CC output selection	●	Contact input
	Abnormal output	●	Contact output
	Output setting signal (CC/CV output individual setting)	●	Analog input
	Output current monitor/Output voltage monitor	●	Analog output
	RS-485 communication	●	Digital communication
	Remote control	○	
	Initial current setting	○	
	Ah preset counter/Ah total counter	○*1	
	Soft start(1-9999 sec)	○*1	
	Start/Stop	○*1	
	Output adjustment (CC/CV output individual setting)	○*1	
	Output waveform selection(DC-Square wave)	○*1	
	Digital ammeter/Digital voltmeter	○*1	
	Open field network	○*2	

*1 Enables to support by using remote controller (option).
*2 We provide dedicated PCBs for DeviceNet, CC-Link, Ethernet.

Model

● Set example of "Control Modular", "Power Modular", "Rack Set"

Model: MRM-
 Rated Output Voltage (15:15V) Rated Output Current (005:500A) (030:3000A)

● Control Modular

Model: MRM-CM

● Power Modular

Model: MRM-PM-15005

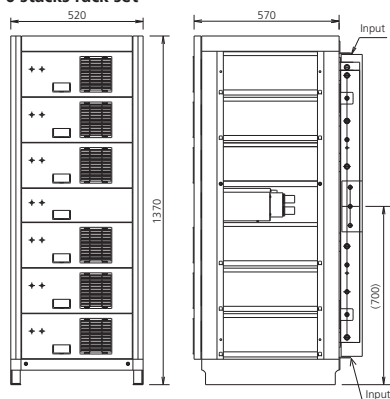
Rated Output Voltage (15:15V) Rated Output Current (005:500A)

● Rack Set

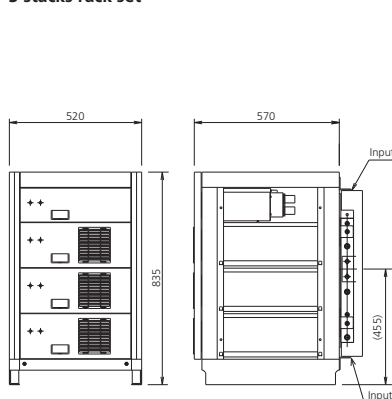
Model: MRM-RK SET Nos of stacks (3:1 stack / 2 stacks / 3 stacks...) (6:4 stacks / 5 stacks / 6 stacks...)

External dimensions

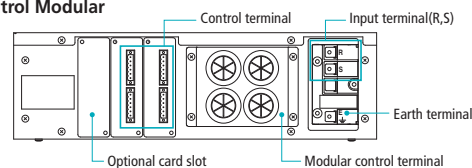
● 6 stacks rack set



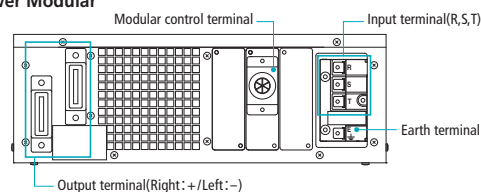
● 3 stacks rack set



● Control Modular



● Power Modular



As peripheral equipment for Metal Surface Treatment power supply, Ultrasonic Cleaning Systems (CleanRex) that requires for cleaning process of plating pre-treatment is separately available.



Caution

Read and understand the entire Operating Manual and your employer's safety practices before installing, or using the equipment. Do not install the equipment in an area where water, high humid, steam, dust or oil are located. It may cause damage to the equipment or result in a fire or electrical shock.

● SanRex is a trademark or a registered trademark of Sansha Electric Manufacturing Co., Ltd. ● DeviceNet is a trademark of ODAV, Inc. ● CC-Link is a trademark or a registered trademark of CC-Link Partner Association. ● Ethernet is a trademark or a registered trademark of Fuji Xerox Co., Ltd. ● Some of the products named in this flyer are trademarks or registered trademarks of their respective holders. None of these organizations are affiliated with Sansha Electric, nor do they sponsor or endorse Sansha Electric products. ● Please note that the parts such as fan or fuse needed to be replaced are chargeable when replacing. Also, keep accessory parts in a safe place. ● Please contact us if the equipment is used for any other applications not specified in this flyer. ● Specifications are subject to change without any notice.

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● Industrial systems (Surface treatment, Electric Power Controller, Welding machine, Lighting power supply)

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