

■ MRS-PR series feature

1. A remodeled image (PR rectifier)

The MRS-PR series has been made compact on the basis of Sansha's own technology. The external dimensions are made the same as those of the single pole type (the MRS series).

2. Highly reliable non-contact pole changing system

Fully automatic non-contact pole changing system is adopted so that reliable pole change is able to function best as a PR power source.

3. The current can be freely and smoothly adjusted either to forward operation or backward operation.

The current can be freely and smoothly adjusted either to forward operation or backward operation, and a 60 second time setting can be arbitrarily made. The product can be used with direct current only so that it can be used for plating for which no PR is necessary.

■ General specifications

Input voltage	3-phase 200V±10% 50/60Hz
Output control range	Voltage: 1/3 ~ rated voltage Current: 10 to 100% of the rated current
Rating cooling	Continuous/Forced cooling
Control	Thyristor-based continuous stepless control

■ Input capacity

Output voltage (V)		Output current (A)												
		500	1000	1500	2000	3000	4000	5000	6000	7000	8000	10000	12000	15000
8V series	Input capacity (kVA)	5	11	16	23	34	42	57	66	78	89	111	133	167
		5	11	16	23	34	42	57	—	—	—	—	—	—
12V series	Input capacity (kVA)	7	16	24	32	47	63	77	94	109	125	158	191	239
		7	16	24	32	47	63	77	—	—	—	—	—	—
15V series	Input capacity (kVA)	9	19	30	39	58	78	101	113	136	157	195	234	293
		9	19	30	39	58	78	101	—	—	—	—	—	—

* The red figures are for the MRS-PR series

Control function

Soft start: Graph showing output current increasing smoothly over time.

CV-CC chgover: Graph showing output voltage constant (CV) then switching to constant current (CC).

Constant current density: Graph showing output current increasing linearly with output voltage.

Crossover (optional): Graph showing output voltage and current during a transition.

Lower limit of voltage: Graph showing output current dropping to zero when output voltage reaches a lower limit.

Lower limit of current: Graph showing output current dropping to zero when output current reaches a lower limit.

Features of the remote control box (MRS series)

- Compact and light (about 400 g)
- Figures are displayed in Sansha's own digital form, either voltage or current (switched over) can be properly monitored. Output voltage is displayed at the uppermost LED level meter so that the rectifier's operation status can be visually monitored.
- All the particulars are arranged on the operation section, operation indicator, trouble indicator, VCC manipulator necessary for plating control (constant voltage, constant current, constant current density).
- Either standing type or console type can be manufactured at customer's request.

Names of parts

- Output voltage level meter
- Trouble indicator
- Operation indicator
- Constant voltage - constant current changeover switch
- Soft start time regulator
- Operation switch
- "Voltmeter" indicator lamp
- "Ammeter" indicator lamp
- Voltmeter - ammeter changeover switch
- Constant current density regulator
- Lower limit regulator
- Output regulator

* A 10-meter cable is attached (it can be extended up to 30 meters).
 (Note) The MRS-PR series is a wall-mounting type.

PR (forward and backward) control

SanRex, MRS-PR series:

- Can independently set a current - time relation or voltage - time relation either in forward operation or backward operation.
- Example:
 - T₁ is independent of T₂ and can be set to 60 seconds or less.
 - Continuous running is possible either in forward operation or backward operation.
- All the operation particulars are concentrated on the compact wall-mounting remote control box.