

Leading Power Solution

T O T A L P O W E R S O L U T I O N

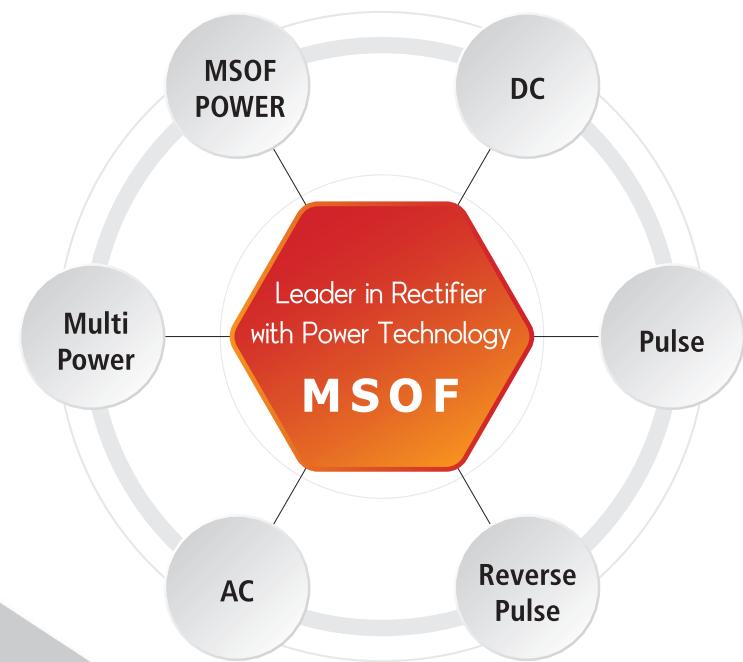
In our company,
we always strive for in best quality

Vol. 7

M S O F ®

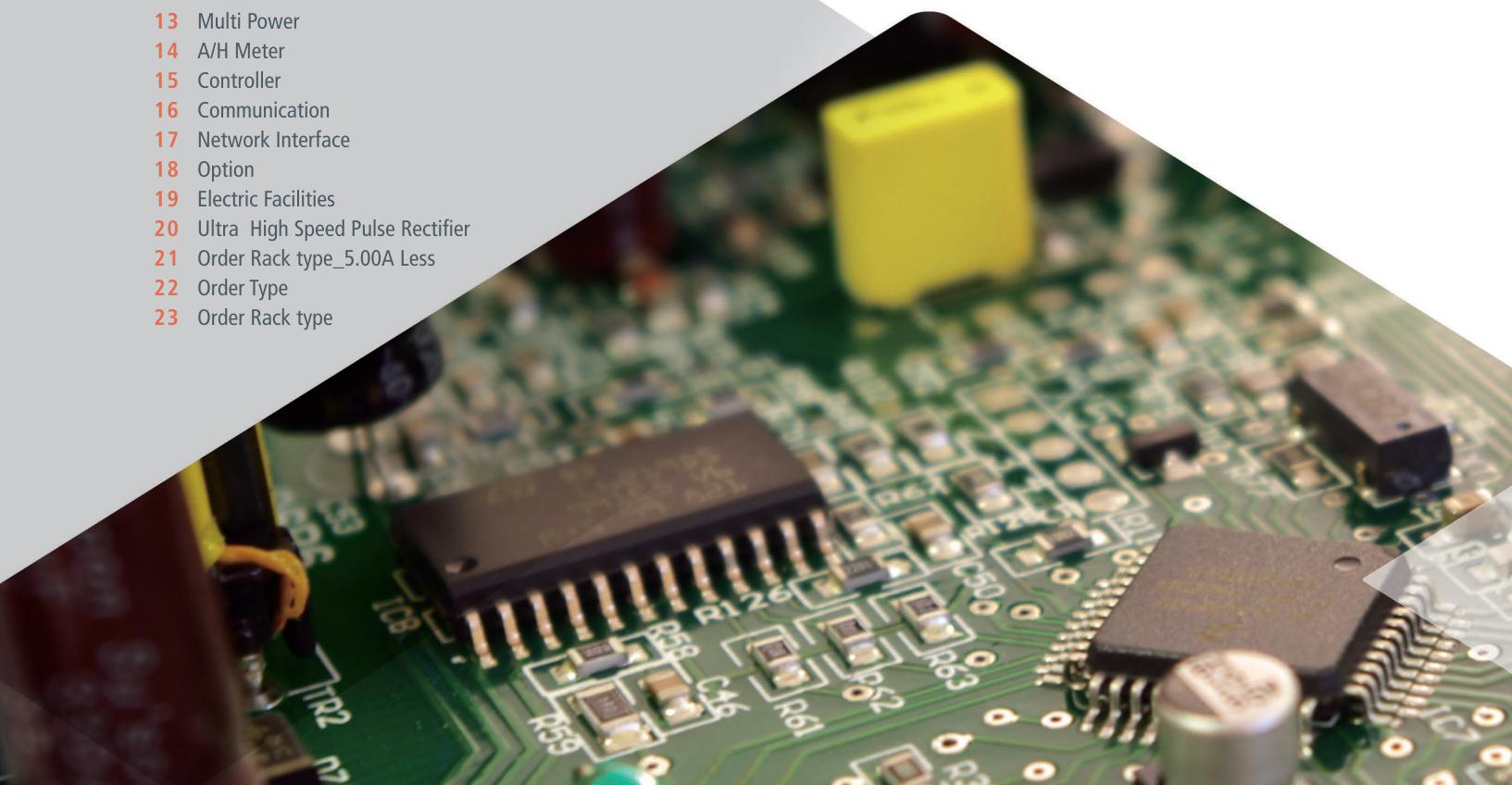
In our company, we always strive for in best quality

TOTAL POWER SOLUTION



Contents

- 03 Greeting, Certificate & Patent
- 04 LINE UP
- 05 DC
- 09 Pulse
- 10 Reverse Pulse
- 11 P.R
- 12 S.C.R
- 13 Multi Power
- 14 A/H Meter
- 15 Controller
- 16 Communication
- 17 Network Interface
- 18 Option
- 19 Electric Facilities
- 20 Ultra High Speed Pulse Rectifier
- 21 Order Rack type_5.00A Less
- 22 Order Type
- 23 Order Rack type



Greeting

"Employees are family, the company pursuing business of sharing"

MSOF stands for MemberShip Of Family.

Employees are family! Under the philosophy of business of sharing, the young organization and endless efforts and research make the foundation of this company of passion and enthusiasm.

"Creative & Challenge"

MSOF challenges the novel and endeavors in establishing unique technology at all times.

With endless technological research and development, MSOF was able to acquire the industry's first "CPLPA" certification and CC-Link certification, and it offers customized rectifiers of various types and methods according to customer needs.

"Best of Best"

The rectifier market is dominated by the highly priced Japanese products and the affordable Chinese products,

MSOF continues to invest in its research institute to actively engage in the quality competition with overseas rectifiers.

MSOF want to offer the high-quality rectifiers at fair prices to its customers.

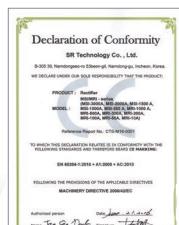
If you grant us an opportunity to showcase the capabilities, expertise and sincerity of MSOF, we will carefully listen to your needs and advices to create and offer the best product for you. Lastly, MSOF promises the highest quality, affordable price, prompt delivery and great A/S.

SR Technology CEO **Jung Hae Sung**

Certificate & Patent



CC-Link Certification



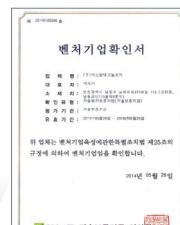
CE Certification



ISO9001 Certification



Affiliated Research Institute



Venture Company Certification



Patent Certificate



Trademark Registration



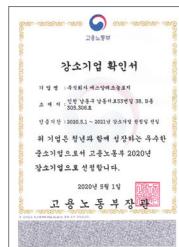
Design Registration-1



Design Registration-2



Business Registration



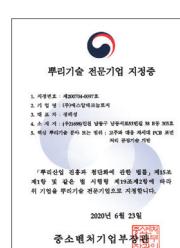
Small Giant Business Certification



Business Innovation Small and Medium Company Certification



INNO-BIZ Certification



Ppuri Business Certification

Metal Surface Treatment

IGBT RECTIFIER, SCR RECTIFIER

- Semiconductor field
- PCB field
- MLCC & GRAVURE
- ABS
- Special Power
- Research institute
- General coating



LINE UP

04

MSOF



Preemptive Error diagnosis with reinforced alarm function

Error code classification allows easy cause identification and prompt emergency measures during A/S

Greater selection with digital & analog

- Built to accept various electrolysis ranging from gold, silver, palladium, rhodium and indium
- With greater selection including analog type, product maintains greater durability even under extreme conditions

Gold, silver, palladium Recycle Line-up

- Output voltage: 6V
- Output current: 100–200A

REMOTE type

Rectifier main body and controller are connected/disconnected with a one touch type mechanism allowing users to move the product conveniently.

FRONT type

An integrated product where the controller is located on the front. Ideal for Read Frame applications.



RACK type

Can be inserted in standard Rack Cases, and allows various designs optimized for equipment structure.

DC F.E.T RECTIFIER(MRF)

SMALL RACK TYPE(200mA~20.0A)



- Offers outstanding durability, high precision control (less than 1/10,000), and customization
- Features improved high precision control reliability, supports 8 bit, 32 bit and 64 bit, and utilizes compact and simple design
- Supports both DC & Pulse, and offers various Step control user convenience
- mA-50A Au and semiconductor, high-precision research and development, 1/10,000 control

Size

| Type | Dimension(mm) Outline | | | Weight (Kg) |
|---------|-----------------------|-----------|-----------|----------------|
| | Weight(W) | Length(D) | Height(H) | |
| MRF-20A | 430 | 410 | 65 | 9 |

DC

05

MSOF

Specification

| MODEL | | High Frequency (Linear & F.E.T Rectifier) | | | | | | | |
|------------------------|-----------------|---|--------|---------------------------------------|--------|-------|--|--|--|
| TYPE | | MRL | MRL | MRF | MRF | MRF | | | |
| | | 200mA | 1000mA | 5.00A | 10.00A | 20.0A | | | |
| AC input | Voltage | 10 220V | | | | | | | |
| | Frequency | 50/60Hz | | | | | | | |
| | Voltage change | $\pm 10\%$ | | | | | | | |
| DC output | Voltage | 4V, 5V, 6V, 8V, 10V, 12V, 15V, 20V (15V capacity calculation) | | | | | | | |
| | Current | 200mA | 1000mA | 5.00A | 10.0A | 20.0A | | | |
| | Resolving power | 0.1mA | 1mA | 10mA | 10mA | 100mA | | | |
| Installation location | | Indoor type | | | | | | | |
| Cooling Method | | Natural cooling | | | | | | | |
| Equipment structure | | TR method (Linear method) | | Primary : Full Bridge Inverter method | | | | | |
| Control method | | TR method (Linear method) | | PWM control switching method | | | | | |
| Operation method | | Constant voltage or Constant current | | | | | | | |
| Control level | | $\pm 1.0\%$ of rated *if both voltage and current operate within rated range (Within 1% of the rated value) | | | | | | | |
| Constant voltage level | | 1% of rated output voltage | | | | | | | |
| Constant current level | | 1% of rated output current | | | | | | | |
| Pulse rate | | rms 1% (rms 1~1% within) | | | | | | | |
| Output control range | | 10~100% of rated voltage *during constant voltage operation | | | | | | | |
| | | 10~100% of rated current *during constant current operation | | | | | | | |

DC IGBT RECTIFIER(MRI)

RACK TYPE (50A~1,000A)



Small-Medium capacity RACK TYPE

- Compact Size
- MEMORY MODE
- EXT' INTERFACE – MODBUS, CC-LINK, D-NET
- Pulse – Option
- Customer order made type

DC
06
MSOF

Specification

| MODEL | | RACK TYPE high-frequency rectifier specification sheet (IGBT Rectifier) | | | | | | |
|------------------------|----------------|---|------|------|------|------|------|-------|
| TYPE | | MRI | MRI | MRI | MRI | MRI | MRI | MRI |
| | | 50A | 100A | 200A | 300A | 500A | 700A | 1000A |
| AC input | Voltage | 1P, 3P – 220V, 380V | | | | | | |
| | Frequency | 50 / 60Hz | | | | | | |
| | Voltage change | ±10% | | | | | | |
| DC output | Voltage | 5~30V – Misc, order-made | | | | | | |
| | Current | 50A | 100A | 200A | 300A | 500A | 700A | 1000A |
| | Capacity | 1KW | 2KW | 3KW | 5KW | 10KW | 15KW | 20KW |
| Installation location | | Indoor type | | | | | | |
| Cooling Method | | Forced wind cooling | | | | | | |
| Constant voltage level | | ≥ 1% of rated output voltage | | | | | | |
| Constant current level | | ≥ 1% of rated output current | | | | | | |
| Pulse rate | | rms ≥ 1% with output end L&C filter | | | | | | |
| Dimension | Width | 430 | 431 | 431 | 430 | 429 | 535 | 535 |
| | Depth | 425 | 435 | 440 | 473 | 545 | 568 | 663 |
| | Height | 106 | 149 | 171 | 194 | 242 | 247 | 253 |
| Weight | | 10 | 18 | 20 | 23 | 32 | 50 | 60 |

DC IGBT RECTIFIER(MVI)

VERTICAL TYPE (100A~300A)



Medium capacity VERTICAL TYPE

- ① Easy to attach on structures
- ② Able to establish great design with reclamer attachment
- ③ Auto-return function for blackouts during operation

Size

| Type | Dimension(mm) Outline | | | | Weight (Kg) | |
|----------|-----------------------|-----------|----------------|------------------|-------------|--|
| | Weight(W) | Length(D) | Height(H) | | | |
| | | | Rubber support | Main body height | | |
| MVI-100A | 130 | 435 | ●(20mm) | 430 | 17 | |
| MVI-200A | 152 | 440 | ●(20mm) | 429 | 19 | |
| MVI-300A | 175 | 491 | ●(20mm) | 454 | 21 | |

Specification

| MODEL | | High Frequency (IGBT Rectifier) | | |
|------------------------|----------------|--|----------------------------|---------------------|
| TYPE | | MVI | MVI | MVI |
| | | 100A | 200A | 300A |
| AC input | Voltage | 1Ø 220V/3Ø 220V, 380V | | 3Ø 220V, 380V, 440V |
| | Frequency | | 50/60Hz | |
| | Voltage change | | ±10% | |
| DC output | Voltage | 5V, 6V, 8V, 10V, 12V, 15V, 20V | (15V capacity calculation) | |
| | Current | 100A | 200A | 300A |
| | Capacity | 1.5kW | 3.0kW | 4.5kW |
| Input capacity | | 1.89kVA | 3.75kVA | 5.63kVA |
| Installation location | | Indoor type | | |
| Cooling Method | | Forced wind cooling | | |
| Equipment structure | | Primary: Full Bridge Inverter method / Secondary: S.R Trans *patent applied | | |
| Control method | | PWM switching method | | |
| Operation method | | Constant voltage or constant current | | |
| Control level | | ±1.0% of rated *if both voltage and current operate within rated range (Within 1% of the rated value) | | |
| Constant voltage level | | 1% of rated output voltage | | |
| Constant current level | | 1% of rated output current | | |
| Pulse rate | | Within 1~5% of rms with secondary L&C filter (2nd "L&C" filter system is fitted RMS 1~5% within) | | |
| Output control range | | 10~100% of rated voltage *during constant voltage operation | | |
| | | 10~100% of rated current *during constant current operation | | |

DC IGBT RECTIFIER(MSI)

STAND TYPE (500A~6,000A)



Medium and large capacity STAND TYPE

Various features

- Current flow timer control
- Continuous operation based on conditions registered in memory
- Compatibility with various external controllers
- Pulse – Option Various features
- Customer order made type

DC

08

MSOF

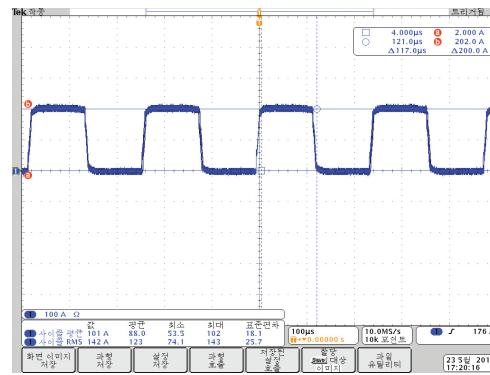
Specification

| MODEL | | High-frequency rectifier specification sheet (IGBT Rectifier) | | | | | | | | |
|------------------------|----------------|---|-------|-------|--------------------------|-------|-------|-------|---|---|
| 형식 | | MSI | MSI | MSI | MSI | MSI | MSI | MSI | MSI | MSI |
| | | 500A | 1000A | 1500A | 1500A | 2000A | 3000A | 4000A | 5000A | 6000A |
| AC input | Voltage | 30~220V, 380V, 440V | | | | | | | | |
| | Frequency | 50 / 60Hz | | | | | | | | |
| | Voltage change | ±10% | | | | | | | | |
| DC output | Voltage | 5~30V | | 5~10V | 5~30V – Misc. order-made | | | | | |
| | Current | 500A | 1000A | 1500A | 1500A | 2000A | 3000A | 4000A | 5000A | 6000A |
| | Capacity | 10kW | 20kW | 15kW | 30kW | 45kW | 60kW | 80kW | 100kW | 120kW |
| Installation location | | Indoor type | | | | | | | | |
| Cooling Method | | Forced wind cooling | | | | | | | | |
| Constant voltage level | | ≥ 1% of rated output voltage | | | | | | | | |
| Constant current level | | ≥ 1% of rated output current | | | | | | | | |
| Pulse rate | | rms ≥ 1% with output end L&C filter | | | | | | | | |
| Dimension | Width | 253 | 262 | 280 | 310 | 333 | 374 | 449 | 600 | 600 |
| | Depth | 425 | 475 | 514 | 541 | 640 | 765 | 910 | 895 | 895 |
| | Height | 517 | 618 | 604 | 761 | 807 | 1095 | 1477 | 1205 (with wheels), 1105 (without wheels) | 1205 (with wheels), 1105 (without wheels) |
| Weight | | 29 | 51 | 56 | 75 | 108 | 170 | 300 | 400 | 440 |

PULSE IGBT RECTIFIER

PULSE (50A~2000A)

High Speed Pulse Power



| Measurement | | Pulse Plating Range |
|---------------|------------|---|
| Setting(Peak) | 400A | 1. Connectors - Electric contact surface of Au & Ni |
| Frequency(Hz) | 10000Hz | 2. Lead frame - bonding & high speed plating |
| Duty rate(%) | 50% | 3. Fine pattern - Fine surface structure |
| Channel 2 | Current | 4. Etching - Etching of fine structure |
| Time/Div | 100 us/div | 5. PCB plating – Through & Via hole Uniform Plating |

Specification

| MODEL | | Pulse rectifier specification sheet – IGBT Pusle Rectifier | | | | |
|---------------------------|----------------|--|-------------|-------------|--------------|--------------|
| 형식 | MRI | MRI | MRI | MSI | MSI | |
| | 50A-P | 300A-P | 500A-P | 1000A-P | 2000A-P | |
| AC input | Voltage | 1P, 3P – 220V, 380V | | | | |
| | Frequency | 50 / 60Hz | | | | |
| | Voltage change | $\pm 10\%$ | | | | |
| DC output | Voltage | 5~30V – Misc, order-made | | | | |
| | Current | $\geq 50A$ | $\geq 300A$ | $\geq 500A$ | $\geq 1000A$ | $\geq 2000A$ |
| | Capacity | 1KW | 5KW | 10KW | 20KW | 30KW |
| Cooling Method | | Forced wind cooling | | | | |
| Constant voltage level | | $\geq 1\%$ of rated output voltage | | | | |
| Constant current level | | $\geq 1\%$ of ratred output current | | | | |
| ON-OFF time setting range | | 1~ 999 msec | | | | |
| ON-OFF time setting range | | 0.1~ 99.9msec – Option | | | | |
| Customizing | | Software Support for User Convenience | | | | |

REVERSE PULSE RECTIFIER

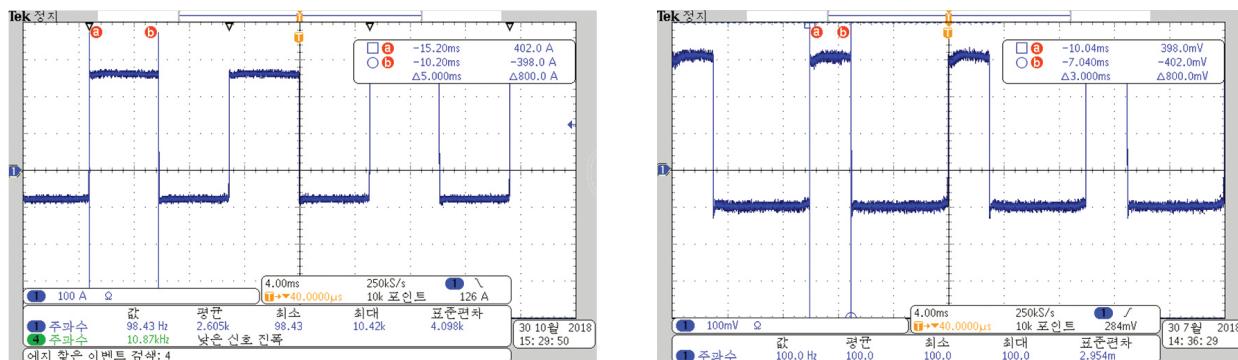
REVERSE PULSE (50/100A ~ 600/1,800A)



Reverse Pulse

Revere Psulse Power

- Low Ripple 1% less
- DC, Pulse, Reverse Pulse Mode
- MASTER & SLAVE – Synchronization
- PATTERN MODE – DC → P.R → DC
- MEMORY MODE – MAX 100
- COMMUNICATION – CC LINK, RS 485



Specification

| MODEL | | Pulse Reverse High Frequency (Rectifier) | | | | |
|-----------|-------------------------|---|--------|--------|--------|--------|
| TYPE | MRI | MRI | MSI | MSI | MSI | MSI |
| | 50-RP | 100-RP | 200-RP | 300-RP | 600-RP | |
| Output | P peak current | 50A | 100A | 200A | 300A | 600A |
| | N peak current | 100A | 300A | 600A | 900A | 1800A |
| | Increase/Decrease time | 400us Option: within 10us | | | | |
| | P pulse width | 1.0~99.9ms Option : 0.1ms | | | | |
| | N pulse width | 1.0~10.0ms Option : 0.1ms | | | | |
| | Inverse conversion time | 50μs (less than) | | | | |
| Dimension | Width | 500mm | 360mm | 360mm | 405mm | 500mm |
| | Height | 277mm | 750mm | 700mm | 747mm | 1200mm |
| | Depth | 450mm | 570mm | 650mm | 662mm | 550mm |
| Weight | | 40Kg | 40Kg | 70Kg | 100Kg | 150Kg |

P.R RECTIFIER

PR (100A~2,000A)



IGBT Periodic Reverse

- Verified efficiency of IGBT TYPE
- Lightweight and compact
- High-efficiency frequency with polarity shift only with program
- Staged voltage, current and operation time setting
- Hard Cr – Ramping Time application
- 10 stage SAVE and CALL features with MEMORY

P.R

11

MSOF

Specification

| MODEL | | Periodic Reverse IGBT Rectifier | | | | |
|-----------------------|---|--------------------------------------|---------|---------|----------|----------|
| TYPE | | MRI | MRI | MSI | MSI | MSI |
| | | 100A-PR | 300A-PR | 500A-PR | 1000A-PR | 2000A-PR |
| Output | Output current | 100A | 300A | 500A | 1000A | 2000A |
| | Constant voltage/ Constant current control | ≥2% | | | | |
| | + pulse time | 1 ~ 9h 59m 59 sec | | | | |
| | - pulse time | 1 ~ 9h 59m 59 sec | | | | |
| | Total operation time | 99h 59min 59sec | | | | |
| | Customizing | Ramping time _ soft up/down | | | | |
| AC input | | 1P, 3P – 220V, 380V / 50~60Hz / ±10% | | | | |
| Control method | | IGBT PWM inverter method | | | | |
| Cooling Method | | Continuous forced wind cooling | | | | |
| Operating temperature | | 0 – 40°C | | | | |
| Dimension | Width | 430mm | 430mm | 262mm | 372mm | 384mm |
| | Height | 150mm | 250mm | 618mm | 867mm | 1252mm |
| | Depth | 430mm | 430mm | 474mm | 481mm | 711mm |
| Weight | | 20Kg | 35Kg | 50Kg | 75Kg | 105Kg |

S. C. R RECTIFIER

SCR (1,000A~30,000A)



Thyristor Type

Heat build-up minimized at specific locations with innovative change in design and differentiated components in structure

- Increased efficiency and improved power factor with transformer design minimizing harmonic wave generation

12 Phase control system

Option – THD 10%

S.C.R

12

MSOF

Specification

| ITEM | | SPECIFICATION |
|----------------|----------------------------|---|
| Output | Input | Constant |
| | | Frequency |
| | | Voltage |
| | | Voltage change |
| | | Capacity |
| | Output | Rated Voltage |
| | | Rated Current |
| | | Rated usage |
| Output control | Voltage control range | |
| | Current control range | |
| Method | Cooling method | Wind cooling, water cooling, oil immersed |
| | Rectification method | 6 phase half-wave |
| | Control element | S. C. R Thyristor |
| | Control method | Phase tuning |
| | Operation method | Forward |
| | Protection alarm | |
| | Overcurrent | |
| | Overtemperature | |
| Performance | Constant voltage stability | Within 1.0% (Less than 1.0%) |
| | Constant current stability | Within 1.0% (Less than 1.0%) |
| | Soft start | 0~60sec |
| | Ripple rate | Greater than 100% to less than 5% |

MULTI POWER RECTIFIER

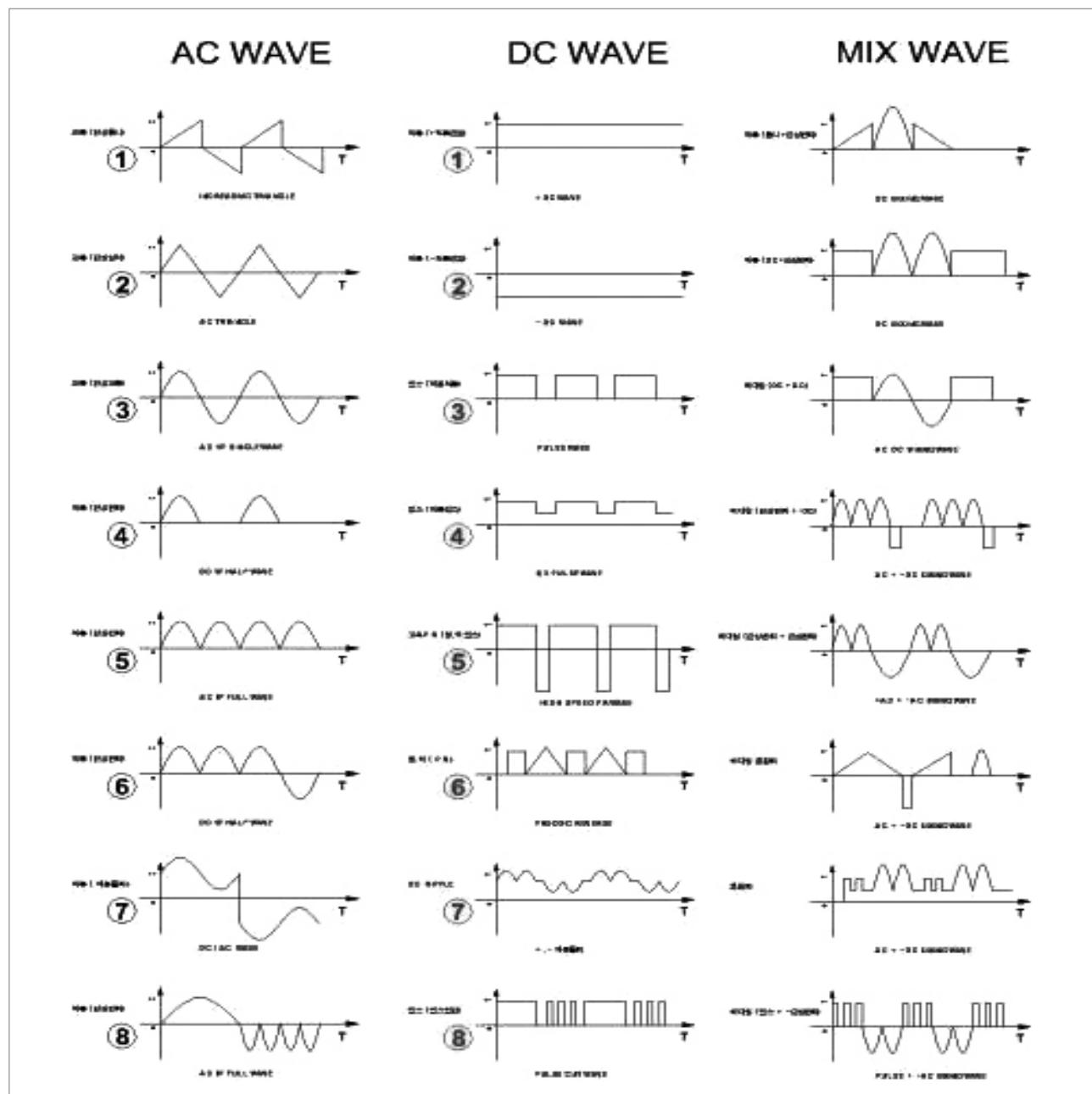
MULTI POWER (50A~500A)



Selectable Output Waveform

- Operation time setting: 9999H, 59M, 59S
- Setting save lot: 10 lots
- Staged operation setting: 10 steps
- Staged time setting: 9H, 59M, 59S
- CV/CC
- 6 stage output method change

Available wave form



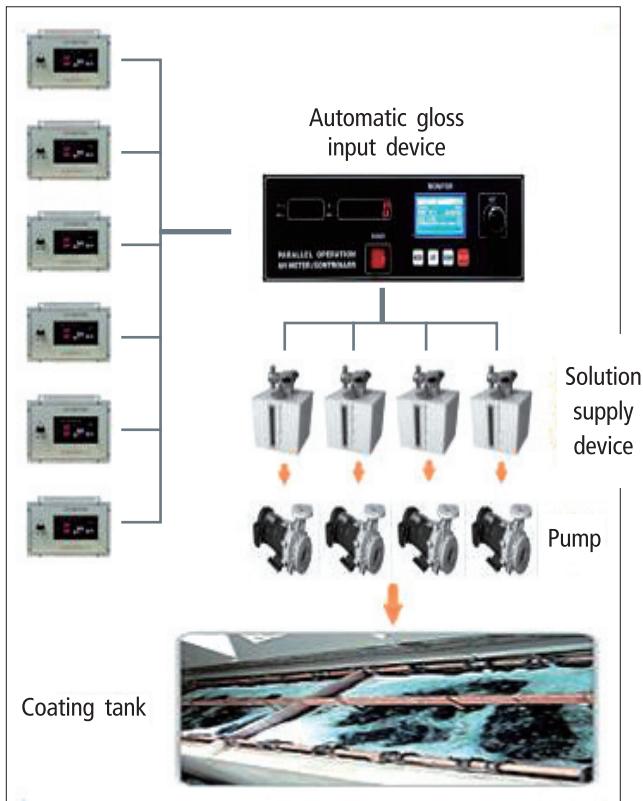
RECTIFIER-A/H METER

A/H METER (LCD display)

A/H Meter

14

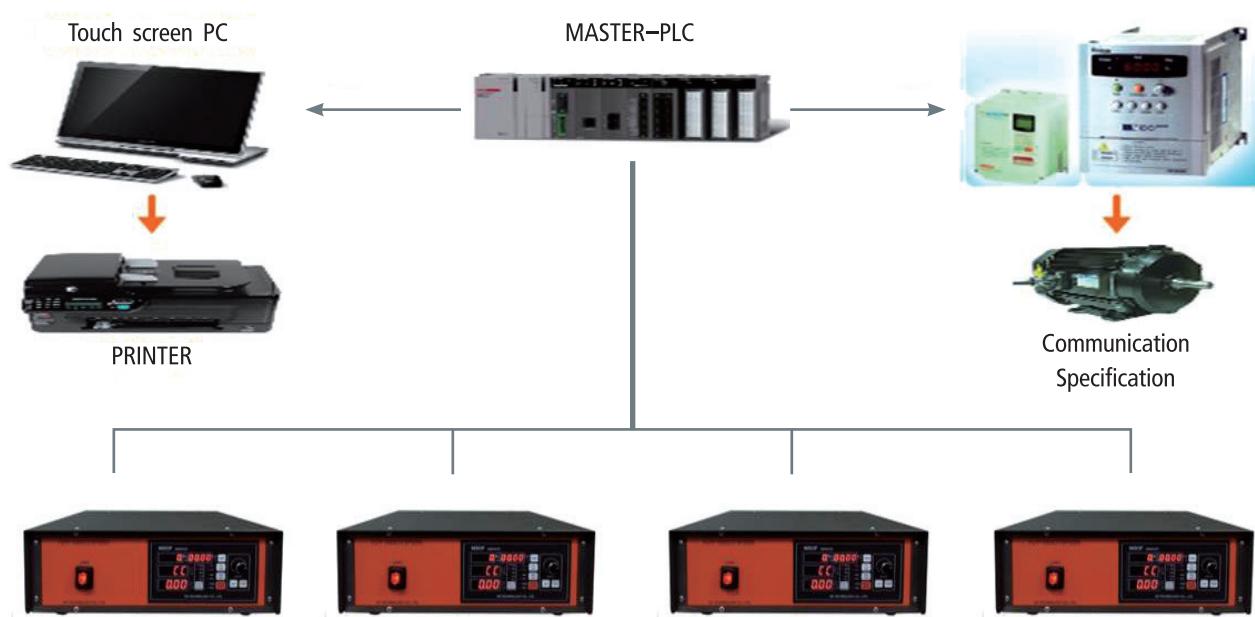
MSOF



Ampere-hour (A/H Meter) and All Communication Interface

| | Item | Features |
|--------------------------|---|---------------------|
| A/H METER FUNCTION | Preset | 8-digit LCD display |
| | Total current display (Total) | FND& LCD Monitor |
| | Setting and display range (Setting & Display) | 1~99999999AH |
| | Constant volume pump operation signal (Pump Signal) | PH – PUMP |
| | Pump operation time setting (Pump operating set time) | 1~9h 59m 59s |
| | Current synthesis up to 20EA for communication (RS-485 Communication) | LCD Monitoring |

Communication Specification



RECTIFIER-CONTROLLER

REMOTE CONTROLLER (LCD display)

Remote Controller

INSERT

Insert Controller Type

- Vertical or horizontal installation available
- Natural matching with existing structure
- Outstanding design for greater visual integration



ABS HI-BOX

ABS – HI BOX TYPE

- Customization for field users
- Perfect water-proof against corrosion and moisture
- One-touch CONNECTOR integration for easy attachment/detachment



Controller

15

MSOF

RECTIFIER–COMMUNICATION

COMMUNICATION (PCB BOARD)

CC-Link (Control&Communication Link)

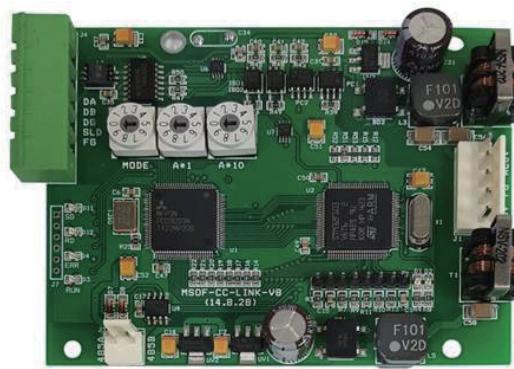


Communication

16
MSOF

CC-Link®

Industry's only CC-Link certification from "CLPA"



DeviceNet



DeviceNet

It is no longer dominated by overseas products. Experience the faster, more convenient MSOF

– Communication Specification

- CC-Link
- DeviceNet
- Profibus
- CDMA
- Modbus
- RS-485
- Ethernet
- Lonworks

}

MSOF supports all communication interfaces you want. Experience the safer and reliable advanced technology of MSOF

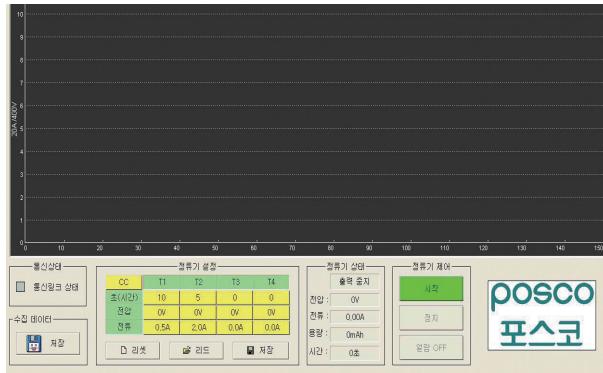
}

Network Interface

Communication (CC-Link, DeviceNet, Modbus, Profibus, Ethernet...)

MMF (Measure Monitoring Function) measuring monitor

- Individual voltage condition
- Individual current condition
- Individual status power
- Integrated total power
- Integrated recorder function → 1-minute term Excel save



- Step control

Customized to 10–100 steps according to customer needs

Offers optimized solution matching customer needs

MSOF – Measurement monitor control

| 제어 소스 선택 | | |
|---|-------------|----------------|
| 제어 소스 리스트 | | |
| 소스 이름 | 주석 | |
| Source-1 | 소스의 세부사항 설정 | |
| Source-2 | 소스의 세부사항 설정 | |
| TEST-1 | 창조테크노 | |
| <input type="button" value="삭제"/> <input type="button" value="설정"/> <input type="button" value="취소"/> | | |
| 설정되어 있는 값 | | |
| 정류기 이름 | 정류기 선택 | 설정 전류/전압 출력 제어 |
| Address 0 : 1 | 선택 | 990 A 출발 ON |
| Address 1 : 2 | 선택 | 990 A 출발 ON |
| Address 2 : 3 | 선택 | 990 A 출발 ON |
| Address 3 : 4 | 선택 | 990 A 출발 OFF |
| Address 4 : 5 | 선택 | 990 A 출발 OFF |
| Address 5 : 6 | 선택 | 990 A 출발 OFF |

Individual source save

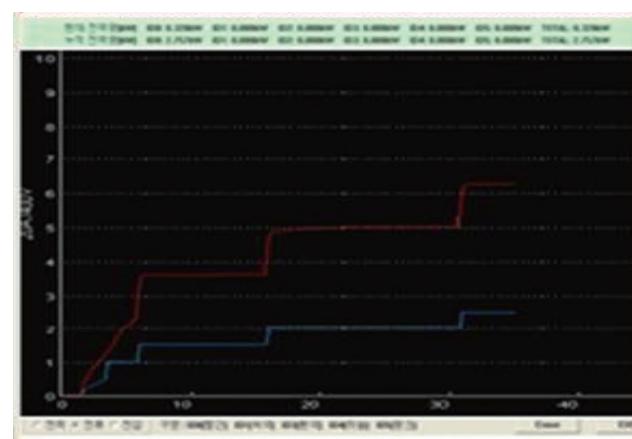
| A | B | C | D | E | F | G | H | I | J |
|----|------------|----------|-------|--------|----------|------|------|--------|-------|
| 1 | date | hour | 0-cur | 0-volt | 0-Remote | 0-OT | 0-OC | 1-LINK | 1-cur |
| 2 | 2011-06-16 | 10:12:23 | 0 | 0.0 | 1 | 0 | 0 | 0 | 100 |
| 3 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 4 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 5 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 6 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 7 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 8 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 9 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 10 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 11 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 12 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 13 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 14 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 15 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 16 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 17 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 19 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 20 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 21 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 22 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 23 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 24 | | | 0.0 | 1 | 0 | 0 | 0 | 1 | 0 |

Excel history management

- Graph-Recording



POWER – Total power



Current voltage (BLUE) and current (RED) condition

RECTIFIER-OPTION

OPTION

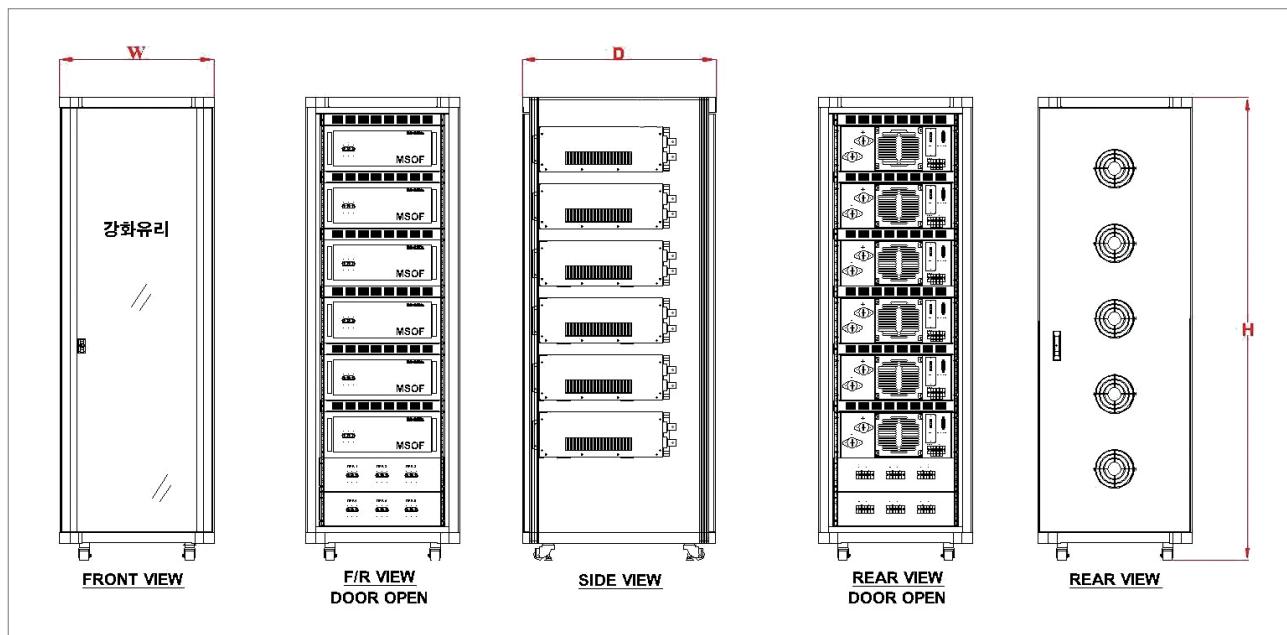
Customer ordered specification



Option

18

MSOF



Size (Specification_19"/21" rackcase type)

| Type | Dimension(mm) | | | | Height | Unit 1U-(44.5mm) | | |
|-----------|---------------|-----|-------|-----|--------|---------------------|--|--|
| | Width | | Depth | | | | | |
| | 19" | 21" | 19" | 21" | | | | |
| SR -1200H | 600 | 700 | 750 | 950 | 1200 | 18 | | |
| SR -1400H | 600 | 700 | 750 | 950 | 1400 | 22 | | |
| SR -1600H | 600 | 700 | 750 | 950 | 1600 | 27 | | |
| SR -1800H | 600 | 700 | 750 | 950 | 1800 | 31 | | |
| SR -2000H | 600 | 700 | 750 | 950 | 2000 | 36 | | |

Electric Facilities

HARMONIC FILTER



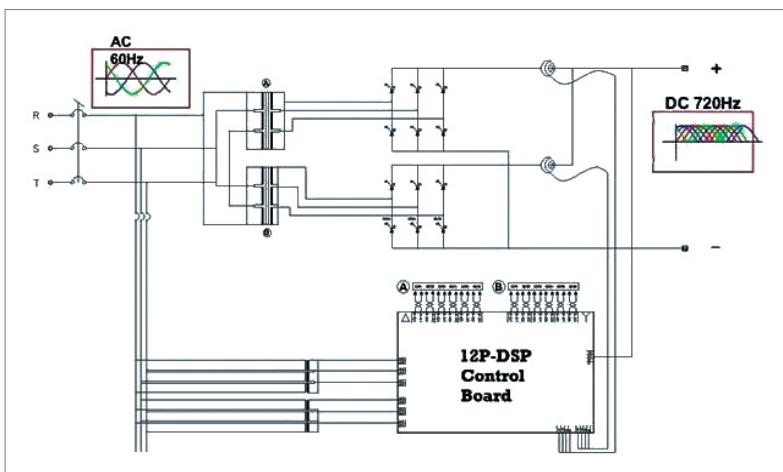
Power quality improvement

: Power factor improvement 95%,
efficiency improvement 92%, THD MAX 5%

Harmonic wave reduction type

- 5–10% power reduction
- Communication line inductive disturbance prevention through inducements through harmonic wave current
- Precision device and protective device malfunction prevention through harmonic wave

SEQUENCE

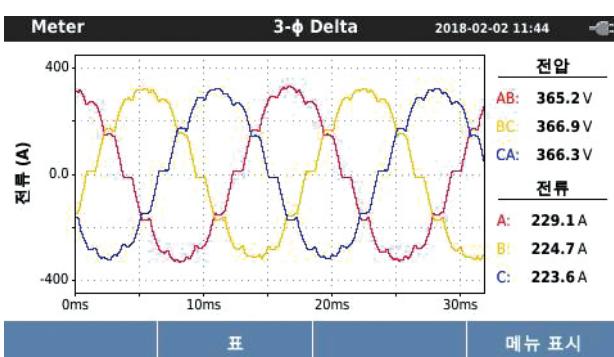


12PHASE CONTROL DSP CONTROL △-Y INDIVIDUAL CONTROL

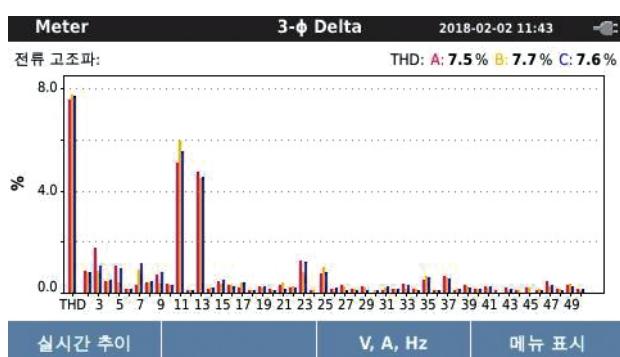
- High power factor compensation
- Increased efficiency – MAX 80%
- Improved power quality
- Noise disturbance removal THD MAX 5%
- Product system optimization
 - Independent trans

ACTUAL FILTERING DATA

Input current wave form



Current harmonic wave (THD)



Ultra High Speed Pulse Rectifier

Ultra High Speed Pulse Rectifier



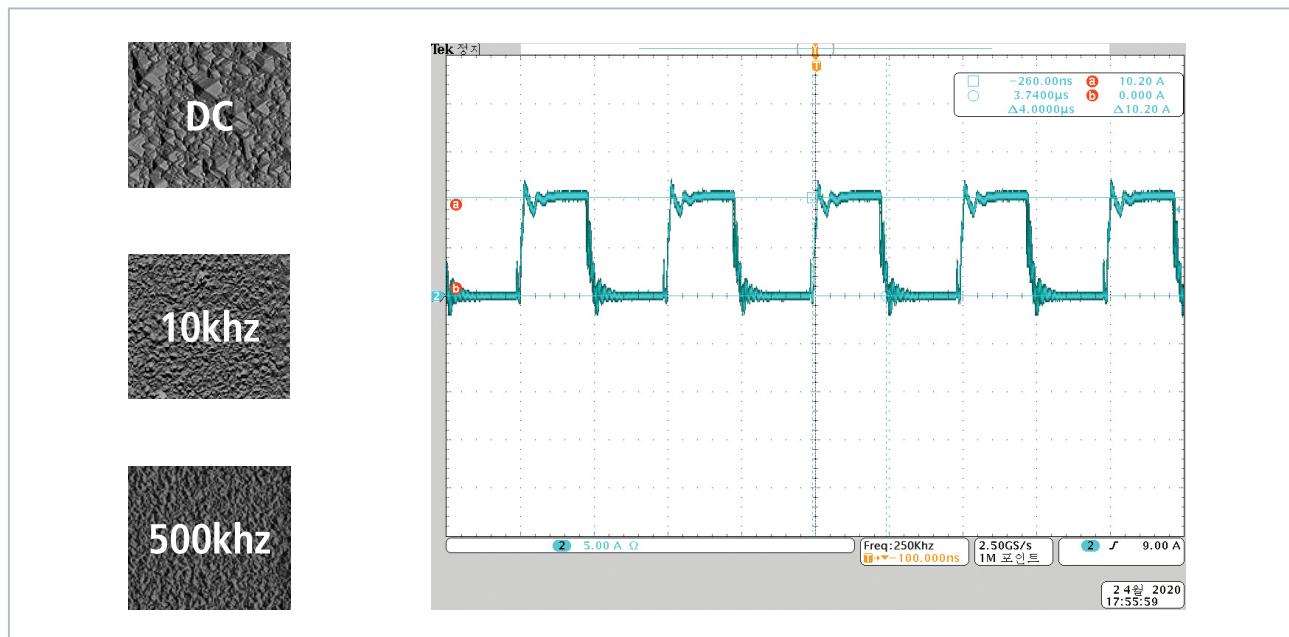
Pulse Output Frequency 500khz

Highest speed rectifier in the world

- Thin-film coating for reduced cost of precious metal – Pd, Au
- Improved conductivity and surface profile
- Reduced deviation among coated surfaces
- High durability and improved corrosion resistance
- Reduced coating time

Specification

| MODEL | | Ultra High Speed Pulse Rectifier |
|------------------------|---------|----------------------------------|
| Type | | MRL-10A-UHSP |
| AC input | Voltage | 10~220V |
| DC output | Voltage | 10V, 15V (Order-made) |
| Current | | 10.00A (Order-made) |
| Output control range | | 10~100% of rated voltage |
| ON time setting range | | 2~999 usec |
| ON time setting range | | 1usec |
| OFF time setting range | | 2~999 usec |
| OFF time setting range | | 1usec |



DC F.E.T RECTIFIER _ MRF

ORDER RACK TYPE _5.00A LESS



Compact Size Small Rack Type

- Improved precision control reliability
- Compact size
- Simple Design
- Ideal for REEL TO REEL equipment, lightweight, compact size
- Customizing Design

Size

| Type | Dimension(mm) Outline | | | Weight (Kg) |
|----------|-----------------------|-----------|-----------|-------------|
| | Weight(W) | Length(D) | Height(H) | |
| MRF-30AS | 240 | 325 | 100 | 7 |

Specification

| MODEL | | F.E.T Rectifier | | |
|------------------------|-----------------------|--------------------------------------|-------|--------|
| TYPE | | MRF | MRF | MRF |
| | | 1A | 5A | 10A |
| AC input | Voltage | 10 220V | | |
| | Frequency | 50 / 60Hz | | |
| | Voltage change | ±10% | | |
| DC output | Voltage | Within 20.0V (order-made) | | |
| | Current | 1.000A | 5.00A | 10.00A |
| | Resolving performance | 1mA | 10mA | 10mA |
| Installation location | | Indoor type | | |
| Cooling Method | | Forced wind cooling | | |
| Operation method | | Constant voltage or constant current | | |
| Control level | | $\geq 1.0\%$ | | |
| Constant voltage level | | $\geq 1\%$ of rated output voltage | | |
| Constant current level | | $\geq 1\%$ of rated output current | | |
| Pulse rate | | $\geq 1\%$ | | |
| Output control range | | 10 ~ 100% _ CV | | |
| | | 10 ~ 100% _ CC | | |

DC Multi Channel RECTIFIER

ORDER TYPE



Multi Channel OUTPUT

- 1~8 CHANNEL individual control and 8CH integrated control available
- Individual LCD screen for each CH for greater operability
- Easy attachment even in tight spaces
- Greater cost saving compared to individual rectifiers
- Order-made multi-channel 1~10
- Order-made capacity 1~100A

Size

| Type | Dimension(mm) Outline | | | Weight (Kg) |
|---------|-----------------------|-----------|-----------|-------------|
| | Weight(W) | Length(D) | Height(H) | |
| MRL-3CH | 200 | 420 | 320 | 15Kg |
| MRL-8CH | 400 | 420 | 320 | 22Kg |

Specification

| MODEL | | Multi Power Linear Rectifier | |
|------------------------|-----------------------|------------------------------|---------|
| TYPE | | MRL-3CH | MRL-8CH |
| | | OUTPUT MAX 10A CHANNEL | |
| AC input | Voltage | 1Ø 220V | |
| | Frequency | 50 / 60Hz | |
| | Voltage change | ±10% | |
| DC output | Voltage | Within 20.0V (order-made) | |
| | Current | 10.00A | |
| | Resolving performance | 10mA | |
| Installation location | | Indoor type | |
| Cooling Method | | Forced wind cooling | |
| Control method | | SMPS | |
| Operation method | | DC, Pulse (option) | |
| Control level | | Scope ≥ 1% | |
| Constant voltage level | | ≥ 1% of rated output voltage | |
| Constant current level | | ≥ 1% of rated output current | |
| Pulse rate | | ≥ 1 % | |

DC LINEAR RECTIFIER _ MRL

ORDER RACK TYPE



EASY CONTROL LCD OPERATING

- High precision in all ranges (1–100%)
- Precision rating less than 0.1%
- Easy control with LCD
- DC, PULSE, MEMORY, STEP function support
- Customizing – matching the performance of the Japanese competition

Size

| Type | Dimension(mm) Outline | | | Weight (Kg) |
|---------|-----------------------|-----------|-----------|-------------|
| | Weight(W) | Length(D) | Height(H) | |
| MRL-5AD | 260 | 345 | 150 | 7 |

Specification

| MODEL | | Linear Rectifier | | | |
|------------------------|-----------------------|------------------------------|-------|--|--|
| TYPE | MRL - 1AD | MRL-5AD | | | |
| | 10mA ~ 1000mA | 50mA ~ 5000mA | | | |
| AC input | Voltage | 10 220V | | | |
| | Frequency | 50 / 60Hz | | | |
| | Voltage change | ±10% | | | |
| DC output | Voltage | Within 20.0V (order-made) | | | |
| | Current | 1.000A | 5.00A | | |
| | Resolving performance | 0.1mA | 1mA | | |
| Installation location | | Indoor type | | | |
| Cooling Method | | Forced wind cooling | | | |
| Operation method | | DC , Pulse (option) | | | |
| Control level | | ≥ 0.5% | | | |
| Constant voltage level | | ≥ 1% of rated output voltage | | | |
| Constant current level | | ≥ 1% of rated output current | | | |
| Pulse rate | | ≥ 0.1 % | | | |
| Output control range | 1 ~ 100% _ CV | | | | |
| | 1 ~ 100% _ CC | | | | |
| Setting save | | Max 10ch (option 99ch) | | | |
| Step operation | | Max 10ch (option 99ch) | | | |

—
wherever you are,
wherever you go,
we are always available for the best service.
—

M SOF®

Head Office

SR Technology co., Ltd.
38Block 8Lot, 349, Namdongdong-ro, Namdong-gu, Incheon, Republic of Korea
T. +82-32-818-0481 F. +82-32-818-0483

Exclusive Agency

REXCORE, SOLEX Co., Ltd
7-3, Chobu-ro, 54beon-gil, Mohyun-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
T. +82-70-7653-7158 F. +82-2-6338-3882 M : +82-10-2966-7158

