

GRA-431

**Assembly Manual**

GW Part No. 82RA-43100M01

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ISO-9001 CERTIFIED MANUFACTURER

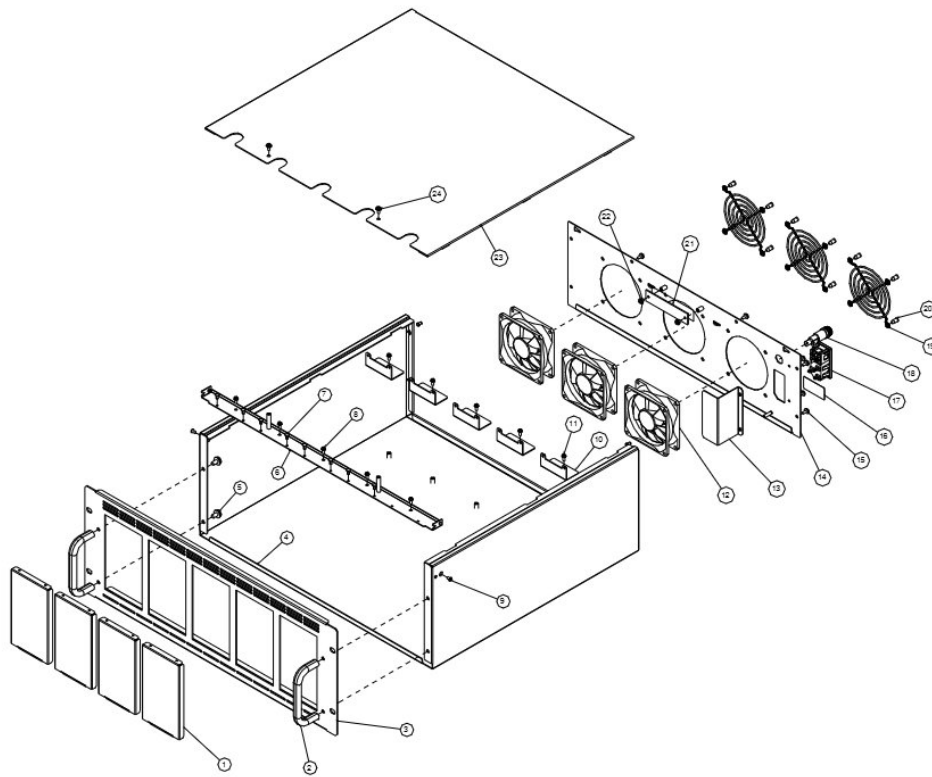
**GW INSTEK**

원문: GW Instek PFR Series Assembly Manual · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

## GRA-431 Part Details

### EIA part details

| Item | Part No.      | Description             | Q'ty |
|------|---------------|-------------------------|------|
| 1    | 62RA-431SC101 | Cover Plate             | 4    |
| 2    | 62SU-03AHD101 | 62SU-03AHD101           | 2    |
| 3    | 62RA-431FP101 | EIA FP                  | 1    |
| 4    | 62RA-431LO101 | LO                      | 1    |
| 5    | 594B-W5010NS1 | BMS-W-5X10              | 4    |
| 6    | 62RA-431HP201 | FP HP                   | 1    |
| 7    | 5320-00603511 | SR-3L                   | 8    |
| 8    | 592B-W3008NS1 | PMS-W 3X8               | 5    |
| 9    | 593B-03006NS1 | FMS 3X6                 | 8    |
| 10   | 62RA-431HP101 | RACK HP                 | 5    |
| 11   | 592B-W3008NS1 | PMS-W 3X8               | 5    |
| 12   | 3812-16100101 | Fan (Vin_AC: 100V)      | 3    |
|      | 3812-26100101 | Fan (Vin_AC: 200V)      | 3    |
| 13   | 62RA-431HP301 | RP HP                   | 1    |
| 14   | 62RA-431RP101 | RP                      | 1    |
| 15   | 594B-W3008NS1 | BMS-W-3X8               | 8    |
| 16   | 5802-04050901 | Voltage indication -100 | 1    |
|      | 5802-04051001 | Voltage indication -200 | 1    |
| 17   | 3610-01002601 | Rocker Switch           | 1    |
| 18   | 37H2-52000201 | Fuse Holder             | 1    |
| 19   | 62BT-120SP101 | Fan Grid                | 3    |
| 20   | 593B-05010N31 | FAN SCREW 5*10          | 12   |
| 21   | 13RA-4310010  | FAN PCB                 | 1    |
| 22   | 594B-W3008NS1 | BMS-W-3X8               | 2    |
| 23   | 62RA-431UP101 | UP                      | 1    |
| 24   | 594B-W3008NS1 | BMS-W-3X8               | 2    |



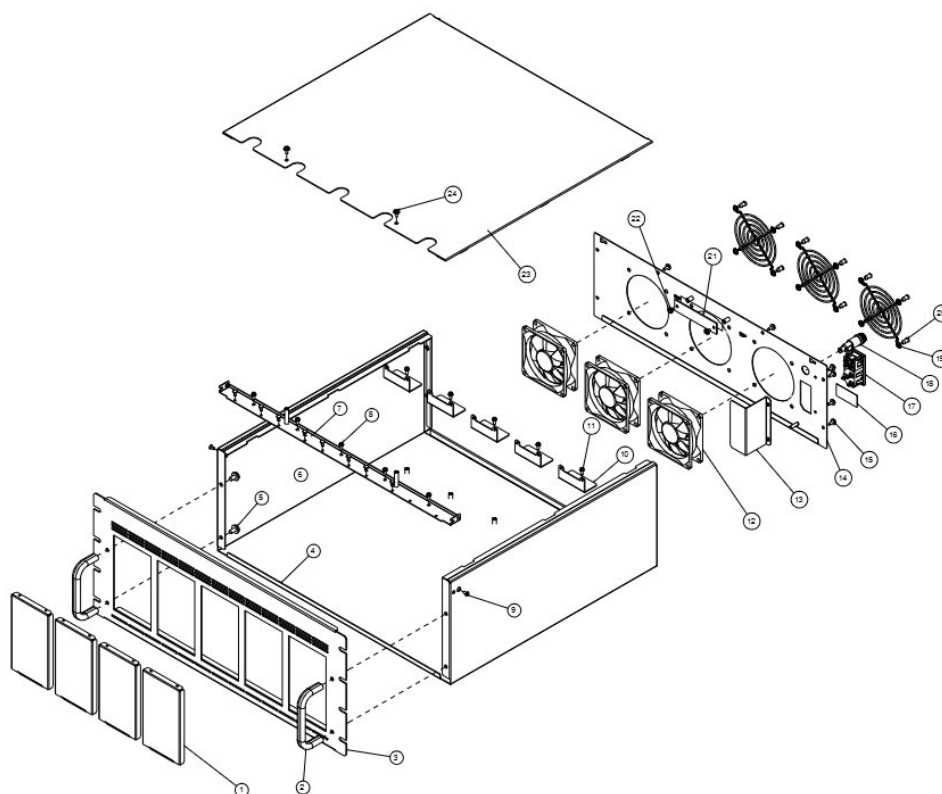
## JIS part details

| Item | Part No.      | Description                    | Q'ty |
|------|---------------|--------------------------------|------|
| 1    | 62RA-431SC101 | Cover Plate                    | 4    |
| 2    | 62SU-03AHD101 | 62SU-03AHD101                  | 2    |
| 3    | 62RA-431FP201 | JIS FP                         | 1    |
| 4    | 62RA-431LO101 | LO                             | 1    |
| 5    | 594B-W5010NS1 | BMS-W-5X10                     | 4    |
| 6    | 62RA-431HP201 | FP HP                          | 1    |
| 7    | 5320-00603511 | SR-3L                          | 8    |
| 8    | 592B-W3008NS1 | PMS-W 3X8                      | 5    |
| 9    | 593B-03006NS1 | FMS 3X6                        | 8    |
| 10   | 62RA-431HP101 | RACK HP                        | 5    |
| 11   | 592B-W3008NS1 | PMS-W 3X8                      | 5    |
| 12   | 3812-16100101 | Fan(V <sub>in</sub> _AC: 100V) | 3    |
|      | 3812-26100101 | Fan(V <sub>in</sub> _AC: 200V) | 3    |
| 13   | 62RA-431HP301 | RP HP                          | 1    |
| 14   | 62RA-431RP101 | RP                             | 1    |
| 15   | 594B-W3008NS1 | BMS-W-3X8                      | 8    |
| 16   | 5802-04050901 | Voltage indication -100        | 1    |

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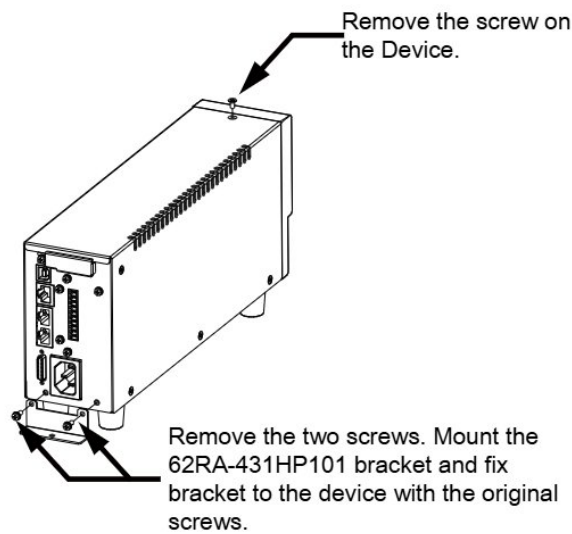
## GRA-431 Part Details

|    |               |                         |    |
|----|---------------|-------------------------|----|
|    | 5802-04051001 | Voltage indication -200 | 1  |
| 17 | 3610-01002601 | Rocker Switch           | 1  |
| 18 | 37H2-52000201 | Fuse Holder             | 1  |
| 19 | 62BT-120SP101 | Fan Grid                | 3  |
| 20 | 593B-05010N31 | Fan Screw 5*10          | 12 |
| 21 | 13RA-4310010  | Fan PCB                 | 1  |
| 22 | 594B-W3008NS1 | BMS-W-3X8               | 2  |
| 23 | 62RA-431UP101 | UP                      | 1  |
| 24 | 594B-W3008NS1 | BMS-W-3X8               | 2  |

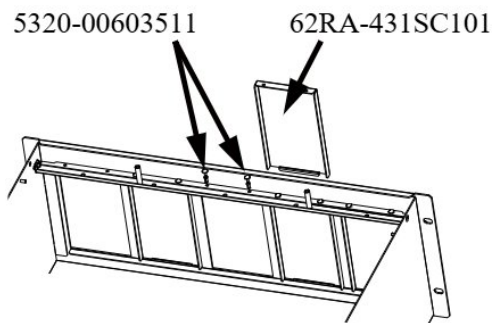


## Preparation before mounting to the rack

1. Remove the fan module and cover.



2. Remove the black plastic rivets by hand, so you can remove the cover with bare hand.



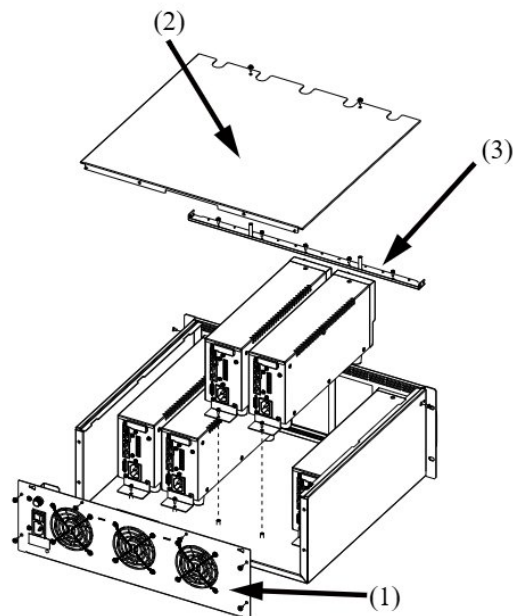
### Note

Decided the quantity of removing the 62RA-431SC101 according to the actual needs.

## Assembly (Procedure for both EIA and JIS are same)

### Steps

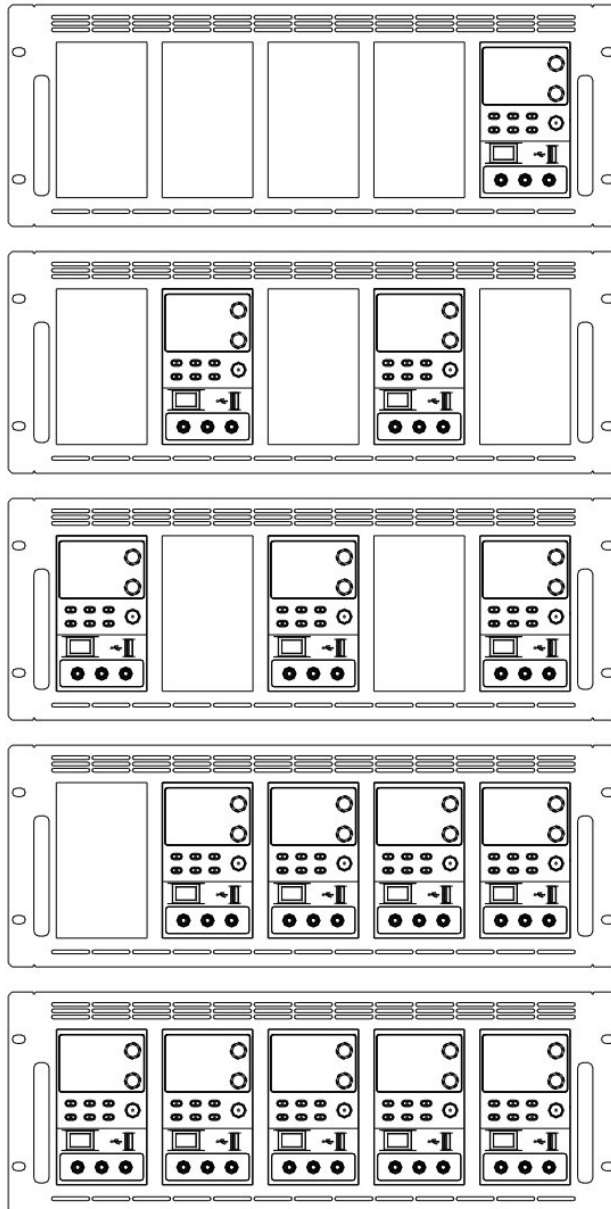
1. Remove the fan module.
2. Remove the cover 62RA-431UP101.
3. Remove 62RA-431HP201.



After steps 1, 2 and 3 are completed, the previously prepared device can be mounted on the rack.

## GRA-431 Front View

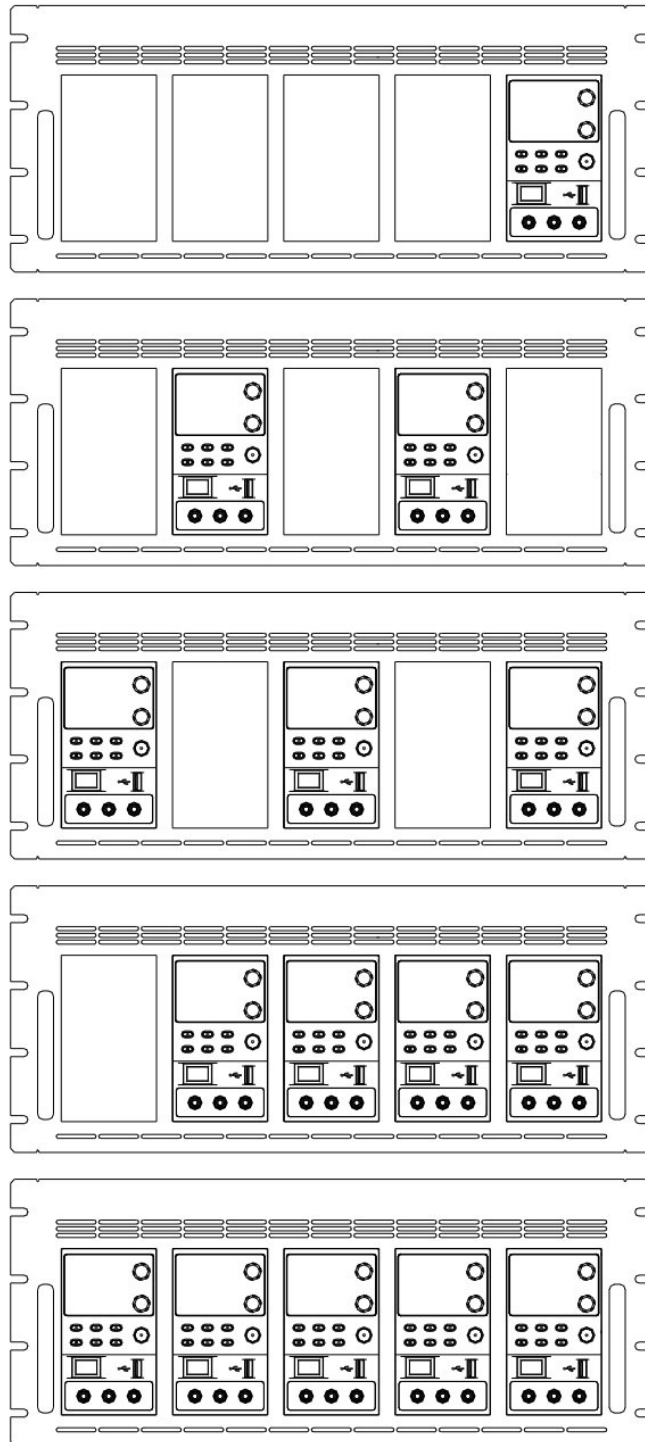
### GRA-431-E



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GRA-431 Front View

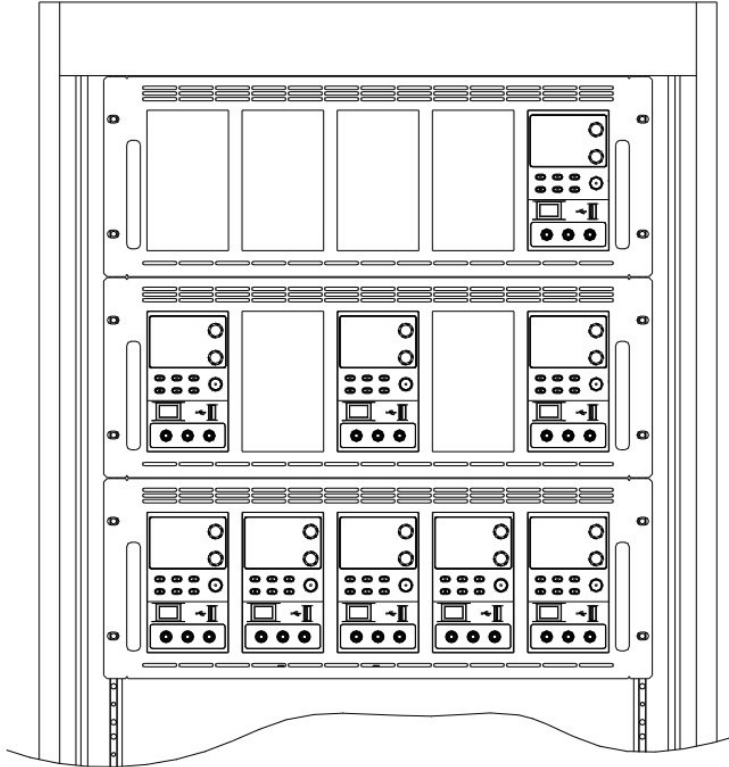
GRA-431-J



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## Front view of 19" standard rack with mounted modules



### Note

- Please note that there are two kinds of rack, EIA and JIS respectively. Incorrect dimension may result in inability to assemble.
- L-shaped angle iron can be added to the right and left sides of the rack at mounting to increase its strength.
- The thickness of L-shaped angle iron must not exceed 2.0mm.
- If more than two units are installed on the GRA-431, fans must be installed to prevent OTP.