

Rosewill



POWER SUPPLY VALUE Series

USER Manual
RV-380-2-FRB
RV-430-2-FRB
RV-480-2-FRB

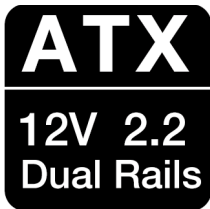
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Features Descriptions

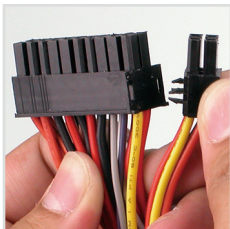
- ATX V2.01 Dual 12V Rails



- Dual 80mm Fan



- 20+4 pin Main Connector



- 1 x PCI-Express Connector



Specification

Connectors

RV380-2-FRB

- 20+4 pin Main Connector x 1



- 4 pin 12V Connector x 1



- 6 pin PCI-Express Connector x 1



- 4 pin Molex Peripheral Connector X 6



- 5 pin SATA Connector x 2

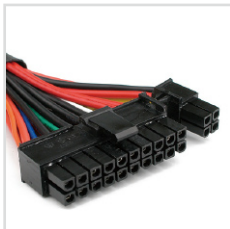


- 4 pin Floppy Connector x 2



RV430-2-FRB, RV480-2-FRB

- 20+4 pin Main Connector x 1



- 4 pin 12V Connector x 1



- 6 pin PCI-Express Connector x 1



- 4 pin Molex Peripheral Connector X 8



- 5 pin SATA Connector x 2



- 4 pin Floppy Connector x 2



Input

AC Input Voltage : 115V/230V

AC Input Frequency : 50/60HZ

AC input Current :

| | 115V | 230V |
|-------------|-----------|-----------|
| RV380-2-FRB | 6.0A(RMS) | 4.0A(RMS) |
| RV430-2-FRB | 7.0A(RMS) | 4.5A(RMS) |
| RV480-2-FRB | 8.0A(RMS) | 5.0A(RMS) |

Output

RV380-2-FRB

| Voltage | +3.3V | +5V | +12V1 | +12V2 | -12V | +5VSB |
|---------------------|-------|-----|-------|-------|------|-------|
| MAX.Current | 30A | 28A | 14A | 15A | 0.6A | 2A |
| MAX.Watt | 130W | | 233W | | 7.2W | 10W |
| Total Watt | 380W | | | | | |
| Regulation | ±5% | ±5% | ±5% | ±5% | ±10% | ±5% |
| Noise & Ripple (mV) | 100 | 100 | 120 | 120 | 200 | 100 |

RV430-2-FRB

| Voltage | +3.3V | +5V | +12V1 | +12V2 | -12V | +5VSB |
|---------------------|-------|-----|-------|-------|------|-------|
| MAX.Current | 30A | 29A | 14A | 15A | 0.6A | 2A |
| MAX.Watt | 140W | | 273W | | 7.2W | 10W |
| Total Watt | 430W | | | | | |
| Regulation | ±5% | ±5% | ±5% | ±5% | ±10% | ±5% |
| Noise & Ripple (mV) | 100 | 100 | 120 | 120 | 200 | 100 |

RV480-2-FRB

| Voltage | +3.3V | +5V | +12V1 | +12V2 | -12V | +5VSB |
|---------------------|-------|-----|-------|-------|------|-------|
| MAX.Current | 30A | 30A | 15A | 15A | 0.6A | 2A |
| MAX.Watt | 150W | | 313W | | 7.2W | 10W |
| Total Watt | 480W | | | | | |
| Regulation | ±5% | ±5% | ±5% | ±5% | ±10% | ±5% |
| Noise & Ripple (mV) | 100 | 100 | 120 | 120 | 200 | 100 |

Overall Performance

Efficiency : 70% at typical full load and normal input voltage
Hold-Up Time : 17ms at full load and normal input voltage
Switching Frequency : 60HZ at normal input.
Stability : $\pm 10\%$, for 24 hours after warm up.

Protection

Over Load Protection :
150% over load protection
Over voltage protection :
Main output over 20% protection
Short Circuit Protection :
All output equipped with short circuit protection

Environment

Operation Temperature : 0°C to +40°C
Storage Temperature : -40°C to +70°C
Operating Humidity : 10% to 90% RH
Storage Humidity : 10% to 90% RH

Safety standards

TUV/CE/CB/FCC/UL

EMI Standard

Meet with FCC class B and CISPR-22B

HI-POT Testing

Input to ground : 15KVac/10mA 3 second
Input to output : 15KVac/10mA 3 second

Insulation resistance

Input to ground : Min 50M Ω
Input to output : Min 50M Ω

Reliability

MTBF : 50000 hours at 25°C ambient temperature

Installation

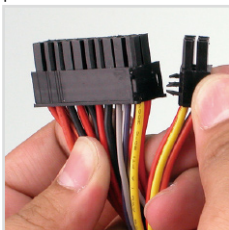
1. Installing Power Supply

- Affix the power supply to the case with screws.

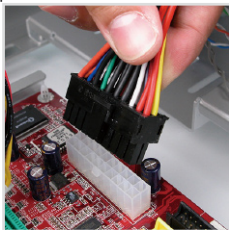


2. 20+4 pin Main Connector

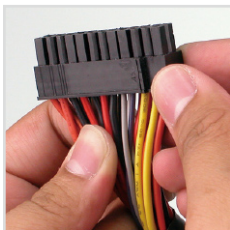
- Detach the 4 pin section to have a 20 pin main connector



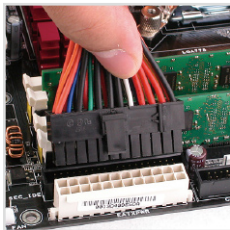
- Attach the 4 pin section to have a 24 pin main connector



- Plug the 20 pin connector onto the motherboard.



- Plug the 24 pin connector onto the motherboard.

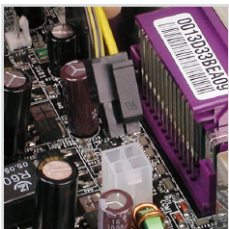


NOTE :

1. Confirm 20 pin or 24 pin main connector your motherboard needs before the installation.
2. 4 pin section here is used for switching between 20 & 24 pin only.

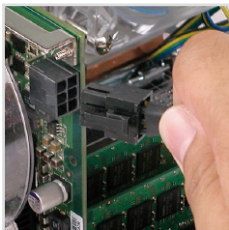
3. 4 pin 12V Connector

- The 4 pin 12V connector for mother board.



4. 6 pin PCI-Express Connector

- The 6 pin PCI-Express connector for video card only.



NOTE :

Confirm if your video card needing the 6 Pin PCI-Express connector or not before the installation.
Not every video card needs it.

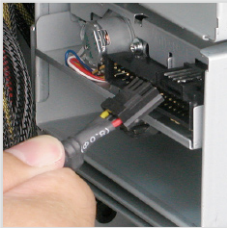
5. 4 pin Molex Peripheral Connector

- The 4 pin Molex Peripheral connector used for HDD, Optical Drive and other devices needing it.



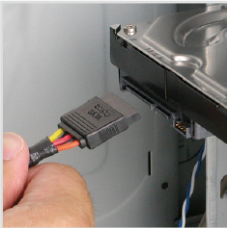
6. 4 pin Floppy Connector

- The 4 pin Floppy connectors used for Floppy disk or Zip drives.



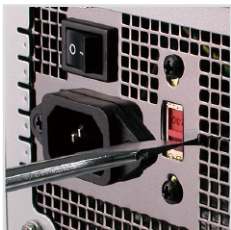
7. 5 pin SATA Connector

- 5 pin SATA connector used for SATA HDD and Optical Drive.



8. Before starting your system

- Select the proper voltage setting.
- Attach the power core to the power supply



- Connect the power core to a power source.



- Confirm the power supply is on



on



off

Information

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