

Rosewill[®]



POWER SUPPLY VALUE Series

USER Manual
RV380-2-FRB-S
RV430-2-FRB-S
RV480-2-FRB-S

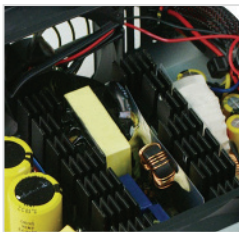
www.rosewill.com

Contents

Features Descriptions	P.2
Specification	P.3
Installation	
1. Installing Power Supply	P.7
2. 20+4 pin Main Connector	P.7
3. 4 pin 12V Connector	P.8
4. 6 pin PCI-Express Connector	P.8
5. 4 pin Molex Peripheral Connector	P.9
6. 4 pin Floppy Connector	P.9
7. 5 pin SATA Connector	P.9
8. Before starting your system	P.10
Information	P.11

Features Descriptions

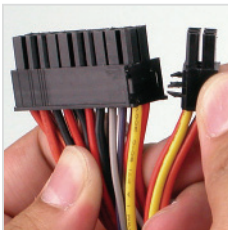
- ATX V2.01 Dual 12V Rails



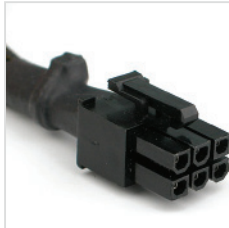
- Dual 80mm Fans



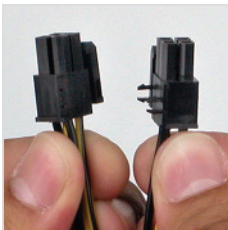
- 20+4 pin Main Connector



- 1 x PCI-Express Connector



- 4/8-pin +12v and EPS Connector



- All cables with black mesh sleeving

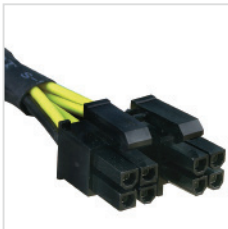


Specification

Connectors

RV380-2-FRB-S

- 20+4 pin Main Connector x 1
- 4+4 pin Connector x 1
 - * 8 pin = +12V EPS Connector
 - 4 pin = +12 V Connector



- 6 pin PCI-Express Connector x 1



- 4 pin Peripheral Connector X 6



- 5 pin SATA Connector x 2

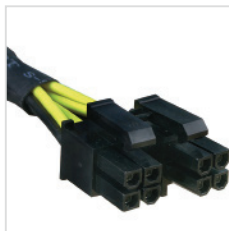


- 4 pin Floppy Connector x 2



RV430-2-FRB-S, RV480-2-FRB-S

- 20+4 pin Main Connector x 1
- 4+4 pin Connector x 1
 - * 8 pin = +12V EPS Connector
 - 4 pin = +12 V Connector



- 6 pin PCI-Express Connector x 1
- 4 pin 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-S	6.0A(RMS)	4.0A(RMS)
RV430-2-FRB-S	7.0A(RMS)	4.5A(RMS)
RV480-2-FRB-S	8.0A(RMS)	5.0A(RMS)

Output

RV380-2-FRB-S

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-S

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-S

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

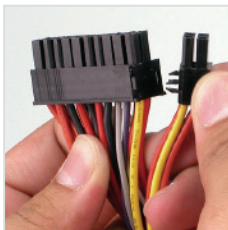
1. Installing Power Supply

- Affix the power supply to the case with screws.

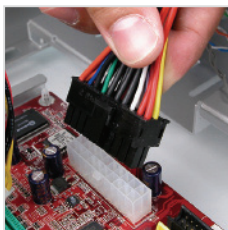


2. 20+4 pin Main Connector

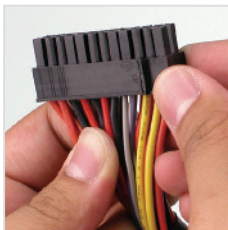
- Detach the 4 pin section to have a 20 pin main connector



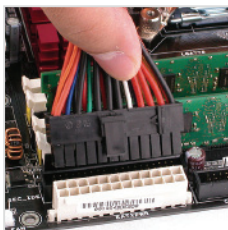
- Plug the 20 pin connector onto the motherboard.



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



- Plug the 24 pin connector onto the motherboard.



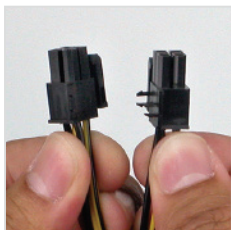
NOTE :

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.

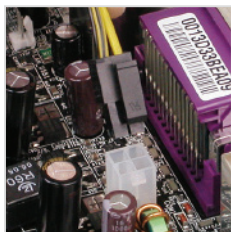
3. 4+4 pin Connector

4 pin

- Separate the 8 pin EPS +12V connector to have two 4 pin connector

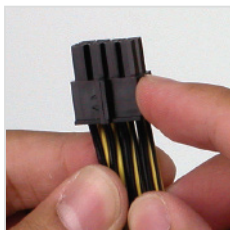


- Pick anyone 4 pin +12V connector to plug onto the motherboard



8 pin

- Combine two 4 pin connectors to have a 8 Pin EPS +12V connector



- Plug the 8 pin EPS +12V connector onto the motherboard.

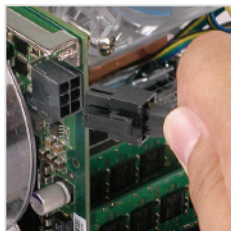


NOTE :

1. Confirm 4 pin +12V or 8 pin EPS +12V connector your motherboard needs before the installation.
2. 4 pin here CAN NOT be used for the main connector..

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 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.



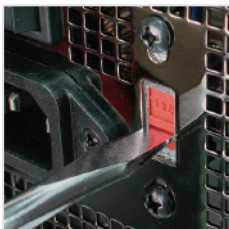
7. 5 pin SATA Connector

- 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

Thank you for purchasing a High-Quality Rosewill Product.

Please register your product at : ***www.rosewill.com***

for complete warranty information and future support for your product.

If you have any question while using our products,

please feel free to contact us at ***techsupport@rosewill.com***

Support Phone Number: 800-575-9885

Support Email: techsupport@rosewill.com



Rosewill[®]

www.rosewill.com