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## Clarion JM-PS-620

# Clarion 550 Watts SMPS JM-PS-620 User Manual

Model: JM-PS-620

## INTRODUCTION

This manual provides essential information for the safe and efficient installation and operation of your Clarion 550 Watts SMPS JM-PS-620. Please read this manual thoroughly before installation and retain it for future reference.



Image 1: Front view of the Clarion 550 Watts SMPS JM-PS-620, showing the cooling fan and power input.

## SAFETY PRECAUTIONS

Always observe the following safety guidelines to prevent injury or damage to the product and connected components:

- Do not open the power supply unit casing. High voltages are present inside.
- Refer all servicing to qualified service personnel.
- Do not operate the SMPS in wet or damp conditions.
- Ensure the power supply is disconnected from the mains before installation or removal.
- This unit is designed for use with personal computers. Do not use it for other applications.



Image 2: Rear label of the Clarion JM-PS-620 showing electrical specifications and critical safety warnings regarding electric shock.

## PACKAGE CONTENTS

Verify that all items are present in the package:

- Clarion 550 Watts SMPS JM-PS-620 Unit
- AC Power Cable

## INSTALLATION GUIDE

Follow these steps to install the SMPS into your computer system:

1. **Prepare Your System:** Ensure your computer is powered off and unplugged from the wall outlet. Open your computer case.
2. **Remove Old PSU (if applicable):** Disconnect all cables from the old power supply. Unscrew and remove the old

unit.

3. **Mount the New SMPS:** Carefully place the Clarion JM-PS-620 into the power supply bay of your computer case. Secure it with screws.
4. **Connect Main Power:** Connect the 20+4 Pin ATX connector to your motherboard.
5. **Connect CPU Power:** Connect the 4+4 Pin CPU connector to your motherboard's CPU power socket.
6. **Connect Peripherals:**
  - Connect SATA power connectors to your hard drives, SSDs, and optical drives.
  - Connect MOLEX connectors to compatible devices (e.g., older fans, certain peripherals).
  - Connect the PCI-e 6-pin connector to your graphics card if required.
7. **Cable Management:** Route cables neatly to ensure proper airflow within the case.
8. **Close Case and Power On:** Close your computer case, plug in the AC power cable, and power on your system.

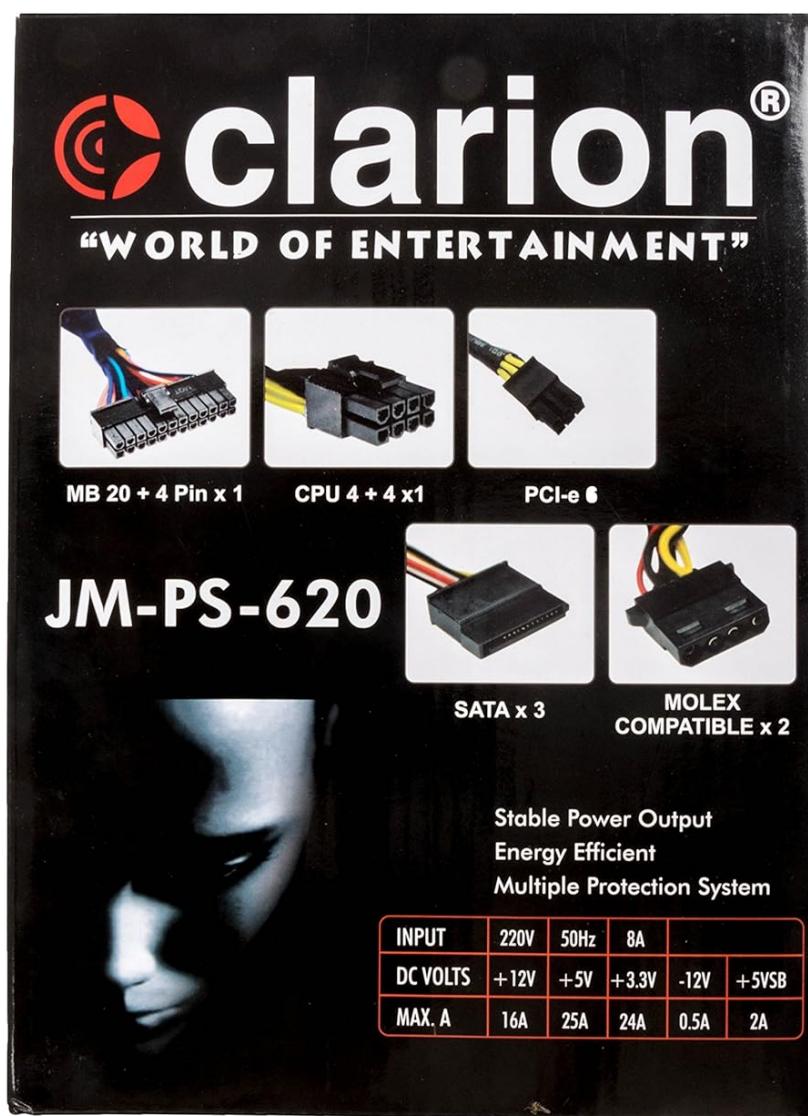


Image 3: Overview of the Clarion JM-PS-620's various power connectors, including MB 20+4 Pin, CPU 4+4, PCI-e 6, SATA, and MOLEX, essential for system component connections.

## OPERATING INSTRUCTIONS

The Clarion JM-PS-620 operates automatically once installed and connected. It provides stable power to your system components. No user intervention is typically required during operation.

- Ensure adequate ventilation around your computer case to prevent overheating.
- The 12cm silent fan will adjust its speed based on internal temperature to maintain optimal cooling.

## MAINTENANCE

Minimal maintenance is required for the Clarion JM-PS-620:

- **Cleaning:** Periodically clean dust from the exterior of the power supply and the computer case vents using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Inspection:** Occasionally inspect cables for any signs of wear or damage. Replace any damaged cables immediately.

## TROUBLESHOOTING

If you encounter issues with your Clarion JM-PS-620, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not power on.	Loose power cable connection. PSU switch is off. Faulty power outlet. Internal short circuit.	Check all power connections. Ensure the PSU switch is in the 'ON' position. Test the outlet with another device. Disconnect non-essential components to isolate the issue. If problem persists, seek professional assistance.
System powers on but shuts down immediately.	Overload or short circuit protection triggered. Insufficient wattage for components.	Verify all connections are secure and correct. Ensure total power draw of components does not exceed 550W. Remove non-essential components to test.
Unusual noise from the PSU.	Dust accumulation in fan. Fan malfunction.	Clean the fan area with compressed air (system off and unplugged). If noise persists, contact support.

## SPECIFICATIONS

Detailed technical specifications for the Clarion 550 Watts SMPS JM-PS-620:

- **Model:** JM-PS-620
- **Type:** SMPS (Switch Mode Power Supply)
- **Wattage:** 550 Watts
- **Material:** Metal
- **Compliance:** ATX12V V2.2
- **Processor Support:** Intel & AMD Dual & Multi Core Processors
- **Cooling:** 12cm Silent Fan, Black Case
- **Protection Features:**
  - Over-voltage Protection

- Over-current Protection
- Short Circuit Protection
- Input Fuse Protection
- Resettable Power Shut Down
- Full Protection

- **Connectors:**

- MB 20+4 Pin: 1
- CPU 4+4 Pin: 1
- PCI-e 6 Pin: 1
- SATA: 3
- MOLEX Compatible: 2

- **DC Output:**

- +5V: 25A
- +3.3V: 24A
- +12V1: 16A
- +12V2: 16A
- -12V: 0.5A
- +5VSB: 2A

- **Operating Conditions:** 100% Burn-in Under High Ambient Temperature

- **Dimensions:** Approximately 22 x 16 x 9.5 cm

- **Weight:** Approximately 1.5 kg

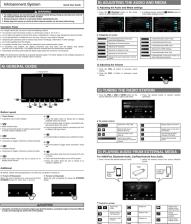
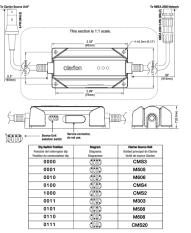
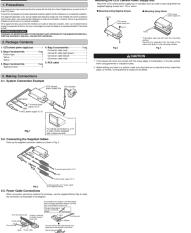


Image 4: Packaging of the Clarion JM-PS-620 highlighting key specifications and features such as ATX12V V2.2 compliance, support for Intel and AMD processors, and integrated protection systems.

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Clarion customer service. Keep your purchase receipt as proof of purchase.

*Note: The product description mentions "Over-voltage, over-current, and short circuit protection provided which gives safety to your system components." and "Output Over Voltage Protection, Input Fuse Protection, Resettable Power Shut Down, Full Protection". These are integrated safety features.*

	<p><a href="#"><u>Clarion 55T0 Infotainment System Quick User Guide</u></a></p> <p>A concise guide to operating the Clarion 55T0 Infotainment System, covering general usage, audio settings, radio tuning, media playback, Bluetooth handsfree, Apple CarPlay, Android Auto, and technical specifications.</p>
	<p><a href="#"><u>Clarion XC Series Amplifiers (XC2510, XC2410, XC2110) Owner's and Installation Manual</u></a></p> <p>This manual provides comprehensive owner's and installation information for Clarion XC Series amplifiers, including models XC2510, XC2410, and XC2110. It covers features, precautions, controls, operations, installation, wiring, troubleshooting, specifications, and limited warranty.</p>
<p>Owner's Manual PP-4360</p>	<p><a href="#"><u>Owner's Manual for PP-4360 Audio Display</u></a></p> <p>Comprehensive owner's manual for the PP-4360 Audio Display, covering system overview, common operations, Bluetooth, iPod, Apple CarPlay, Siri, Android Auto, and declaration of conformity.</p>
	<p><a href="#"><u>Clarion MW6 NMEA 2000 Interface Installation and Wiring Guide</u></a></p> <p>Detailed installation diagram and wiring illustrations for the Clarion MW6 NMEA 2000 interface module, connecting Clarion source units to NMEA 2000 networks. Includes dip switch settings and configuration options.</p>
	<p><a href="#"><u>Clarion CAA-185-200 CCD Camera Power Supply Box Installation Instructions</u></a></p> <p>Installation instructions and precautions for the Clarion CAA-185-200 CCD Camera Power Supply Box, detailing package contents, connection procedures, and mounting methods.</p>
	<p><a href="#"><u>Clarion CMR-20 Marine Wired Remote with LCD Display Owner's Manual</u></a></p> <p>Owner's manual for the Clarion CMR-20 Marine Wired Remote with LCD Display, detailing installation, general controls, IP67 water resistance, and warranty information for marine and powersports audio systems.</p>