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> MEAN WELL GST120A48-P1M Power Adapter User Manual

## MEAN WELL GST120A48-P1M

# User Manual for MEAN WELL GST120A48-P1M Desktop Green Adaptor

BRAND: MEAN WELL

Model: GST120A48-P1M

## 1. PRODUCT OVERVIEW

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The MEAN WELL GST120A48-P1M is a high-efficiency 120W single output desktop power adapter designed for various electronic applications. This green adaptor meets Level VI efficiency standards, ensuring energy-saving operation. It provides a stable 48V output from a 20-48V input range, making it suitable for a wide array of compatible devices requiring reliable power.



Figure 1: The MEAN WELL GST120A48-P1M desktop power adapter, showing its black rectangular body, input power port, and output cable with a proprietary connector.

## 2. SETUP INSTRUCTIONS

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1. **Unpack the Adapter:** Carefully remove the GST120A48-P1M power adapter from its packaging. Inspect it for any visible damage.
2. **Connect AC Power Cord:** Obtain a compatible AC power cord (not included with the adapter) and connect it securely to the AC input receptacle on the adapter. Ensure the cord is rated for your local mains voltage.
3. **Connect to Device:** Plug the proprietary output connector of the adapter into the corresponding power input port of your compatible electronic device. Ensure a firm connection.
4. **Plug into Wall Outlet:** Insert the AC power cord's plug into a standard wall electrical outlet.
5. **Verify Power:** Once connected, the adapter may have an indicator light (if present) to show it is receiving power and supplying output. Your device should power on or begin charging.

**Important Safety Note:** Always ensure that the input voltage of the adapter matches the voltage of your electrical outlet and that the output voltage and current are compatible with your device's requirements. Using an incompatible power source can damage the adapter or your device.

## 3. OPERATING INSTRUCTIONS

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The GST120A48-P1M power adapter is designed for continuous operation within its specified parameters. Once properly connected, it will provide a stable 48V DC output to power your compatible device.

- **Power On/Off:** The adapter itself does not have an on/off switch. Power is supplied as long as it is connected to a live AC outlet and the output is connected to a device. To power off, disconnect the AC power cord from the wall outlet.
- **Indicator Light:** Observe the small LED indicator on the adapter (if present). A lit LED typically indicates that the adapter is receiving AC input power and is ready to supply DC output.
- **Environmental Conditions:** Operate the adapter within its specified temperature and humidity ranges. Avoid extreme heat, cold, or damp environments.
- **Load Management:** Do not exceed the maximum 120W output capacity of the adapter. Overloading can lead to overheating and damage.

## 4. MAINTENANCE

The GST120A48-P1M power adapter requires minimal maintenance to ensure long-term reliable operation.

- **Cleaning:** Disconnect the adapter from all power sources before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners, aerosols, or solvents.
- **Ventilation:** Ensure the adapter is placed in a well-ventilated area. Do not cover the adapter or place it in an enclosed space that could restrict airflow, as this can lead to overheating.
- **Cable Care:** Avoid bending or crimping the power cables excessively. Do not place heavy objects on the cables. Regularly inspect cables for signs of wear or damage.
- **Storage:** When not in use for extended periods, store the adapter in a cool, dry place, away from direct sunlight and extreme temperatures.

## 5. TROUBLESHOOTING

If you encounter issues with your GST120A48-P1M power adapter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power output from adapter.	<ul style="list-style-type: none"> <li>◦ AC power cord not securely connected.</li> <li>◦ Wall outlet is not live.</li> <li>◦ Adapter or device fault.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Ensure AC power cord is fully inserted into both the adapter and the wall outlet.</li> <li>◦ Test the wall outlet with another device.</li> <li>◦ Try connecting the adapter to a different device (if compatible) or the device to a different power source (if available) to isolate the issue.</li> </ul>
Device not charging/powering on.	<ul style="list-style-type: none"> <li>◦ Output connector not fully inserted.</li> <li>◦ Device requires different voltage/current.</li> <li>◦ Device fault.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Ensure the output connector is firmly seated in the device's power port.</li> <li>◦ Verify that your device is compatible with a 48V, 120W power supply.</li> <li>◦ Test the device with its original power supply (if available).</li> </ul>
Adapter feels excessively hot.	<ul style="list-style-type: none"> <li>◦ Poor ventilation.</li> <li>◦ Overload.</li> <li>◦ Internal fault.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Ensure the adapter is in a well-ventilated area and not covered.</li> <li>◦ Verify that the connected device's power consumption does not exceed 120W.</li> <li>◦ Disconnect immediately and contact support if overheating persists without clear cause.</li> </ul>

If the problem persists after attempting these solutions, please contact MEAN WELL customer support or your retailer for further assistance.

## 6. SPECIFICATIONS

Attribute	Value
Model Number	GST120A48-P1M
Brand	MEAN WELL
Product Dimensions	5.91 x 11.02 x 7.09 inches
Item Weight	1.54 pounds
Input Voltage	20-48 Volts (AC)
Output Voltage	48 Volts (DC)
Wattage	120 watts
Connectivity Technology	Proprietary Connector
Connector Type	Barrel Connector
Compatible Devices	PC (and other compatible electronic devices)
Mounting Type	Desktop
Efficiency Level	Level VI
Specification Met	FCC
Date First Available	August 5, 2015

## 7. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service for your MEAN WELL GST120A48-P1M power adapter, please refer to the documentation provided with your purchase or visit the official MEAN WELL website. You may also contact the retailer from whom you purchased the product for assistance.

When contacting support, please have your product model number (GST120A48-P1M) and purchase date readily available.

**Manufacturer:** MEAN WELL



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