

MDF2PSUX156

Safety Manual

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DOCUMENT VERSION



Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check www.adj.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version	DMX Channels	Notes
12/17/2021	1.0	N/A	Not Applicable	Initial Release.
01/28/2022	1.1	N/A	Not Applicable	Updated Specifications.
05/09/2025	1.2	N/A	Not Applicable	Added FCC Statement

Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

TABLE OF CONTENTS

Introduction	4
Limited Warranty (USA Only)	5
Features	6
Safety Guidelines	7
Overview	8
Installation	9
Trouble Shooting	11
Dimensional Drawings	12
Specifications	13
FCC Statement	14

INTRODUCTION

Unpacking: Thank you for purchasing the MDF2PSUX156 power supply for the MDF2 dance floor system by ADJ Products, LLC. Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for any damage and be sure all accessories necessary to operate the unit have arrived intact. In the event that damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

Introduction: The ADJ MDF2PSUX156 is a power supply unit intended for use with the ADJ MDF2 dance floor panels. To optimize the performance of this product, please read these instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit for future reference.

Customer Support: Contact ADJ Service for any product related service and support needs. Also visit forums.adj.com with questions, comments or suggestions.

Parts: To purchase parts online visit:

<http://parts.adj.com> (US)

<http://www.adjparts.eu> (EU)

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST

Voice: 800-322-6337 | support@adj.com

ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET

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CAUTION! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, as doing so will void your manufacturer's warranty. In the unlikely event your unit may require service, please contact ADJ Products, LLC.

Do not discard the shipping carton in the trash. Please recycle when ever possible.

LIMITED WARRANTY (USA ONLY)

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, you must obtain a Return Authorization number (RA#) before sending the product back—please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be prepaid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall incur no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because it was not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning, or periodic checkup. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And all warranties, whether expressed or implied, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Product, LLC be liable for any loss and/or damage, direct and/or consequential arising out of the use of, and/or inability to use this product.
- G. This warranty is the only written warranty applicable to ADJ Products, LLC products, and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

- Non-LED Lighting Products = 1-Year (365 Days) (Including Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands, Power/Data Distribution, etc. excluding LED and lamps)
- Laser Products = 1-Year (365 Days) (excluding laser diodes which have a 6-Month Limited Warranty)
- LED Products = 2-Year (730 Days) (excluding batteries which have a 180 Day Limited Warranty)
- NOTE: 2-Year (730 Days) Limited Warranty ONLY applies to product purchased within the United States.
- StarTec Series = 1-Year (365 Days) (excluding batteries which have a 180 Day Limited Warranty)
- ADJ DMX Controllers = 2 Year (730 Days)
- American Audio Products = 1 Year (365 Days)

FEATURES

INCLUDED ITEMS

Power Cable (x2)

IP RATING

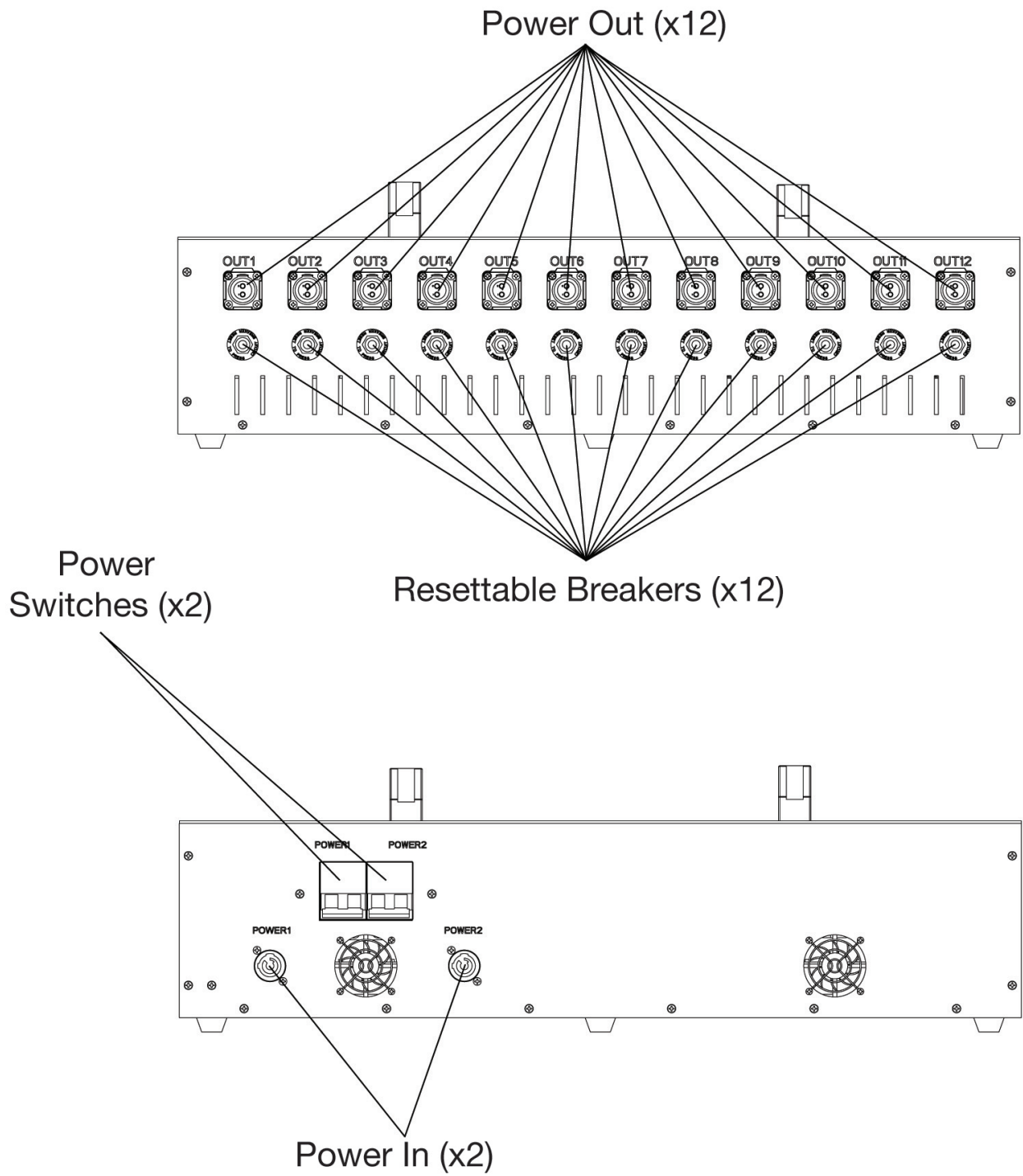
This device is IP20 rated. This means that the unit is protected against intrusion from solids approximately the size of an adult finger (12mm in diameter), and that the unit is NOT protected against water intrusion of any kind!

SAFETY GUIDELINES

THIS FIXTURE IS COMPOSED OF SOPHISTICATED ELECTRONIC COMPONENTS. TO GUARANTEE SMOOTH OPERATION, IT IS IMPORTANT TO FOLLOW ALL INSTRUCTIONS AND GUIDELINES IN THIS MANUAL. ADJ PRODUCTS, LLC IS NOT RESPONSIBLE FOR INJURY AND/OR DAMAGES RESULTING FROM THE MISUSE OF THIS FIXTURE DUE TO THE DISREGARD OF THE INFORMATION PRINTED IN THIS MANUAL. ONLY QUALIFIED AND/OR CERTIFIED PERSONNEL SHOULD PERFORM INSTALLATION OF THIS FIXTURE AND ONLY THE ORIGINAL RIGGING PARTS INCLUDED WITH THIS FIXTURE SHOULD BE USED FOR INSTALLATION. ANY MODIFICATIONS TO THE FIXTURE AND/OR THE INCLUDED MOUNTING HARDWARE WILL VOID THE ORIGINAL MANUFACTURER'S WARRANTY AND INCREASE THE RISK OF DAMAGE AND/OR PERSONAL INJURY. ONLY CERTIFIED PERSONNEL SHOULD PERFORM INSTALLATION OF THIS FIXTURE.

- PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.
- THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.
- DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.
- DO NOT USE OUTDOORS OR EXPOSE TO MOISTURE OR HUMIDITY!
- DO NOT PLUG UNIT INTO A DIMMER PACK!
- NEVER OPEN THIS UNIT WHILE IN USE!
- UNPLUG POWER BEFORE SERVICING UNIT!
- NEVER TOUCH UNIT DURING OPERATION, AS IT MAY BE HOT!
- KEEP FLAMMABLE MATERIALS AWAY FROM UNIT!
- MINIMUM DISTANCE TO OBJECTS/SURFACES IS 6.6 FEET (2 METERS)
- **OPERATING AMBIENT TEMPERATURE RANGE IS -4° F TO 158° F (-20°C TO 70°C). DO NOT OPERATE THE DEVICE WHEN AMBIENT TEMPERATURE FALLS OUTSIDE THIS RANGE.**
- **MINIMUM DISTANCE TO FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER).**
- DO NOT TOUCH the unit housing during operation. Turn OFF the power and allow approximately 60 minutes for the unit to cool down before serving.
- DO NOT shake unit, and avoid brute force when installing and/or operating unit.
- DO NOT operate unit if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the unit securely with ease. NEVER force a power cord connector into the unit. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same power rating.
- DO NOT block any air ventilation slots. All fan and air inlets must remain clean and never blocked. Allow approx. 6" (15cm) between unit and other devices or a wall for proper cooling.
- Always disconnect unit from main power source before performing any type of service and/or cleaning procedure.
- Only handle the power cord by the plug end. Never pull out the plug by tugging the wire portion of the cord.
- Consistent operational breaks will ensure fixture will function properly for many years.
- ONLY Use original packaging and materials to transport the fixture in for service.

OVERVIEW



INSTALLATION



FLAMMABLE MATERIAL WARNING

Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.



MINIMUM DISTANCE TO OBJECTS/SURFACES IS 6.6 FEET (2 METERS).

MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER)



**DO NOT EXPOSE TO RAIN OR MOISTURE!
INDOOR USE ONLY!**

DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!

- Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.
- Ambient temperature operating range is **-4° F to 158° F (-20°C to 70°C)**. Do not use operate the unit when ambient temperature falls outside of this range!
- Device(s) should be installed in areas outside walking paths, seating areas, or areas where unauthorized personnel might reach the fixture by hand.
- Allow approximately 60 minutes for the fixture to cool down before servicing.

IP RATING

This device is IP20 rated. This means that the unit is protected against intrusion from solids approximately the size of an adult finger (12mm in diameter), and that the unit is NOT protected against water intrusion of any kind!

INSTALLATION

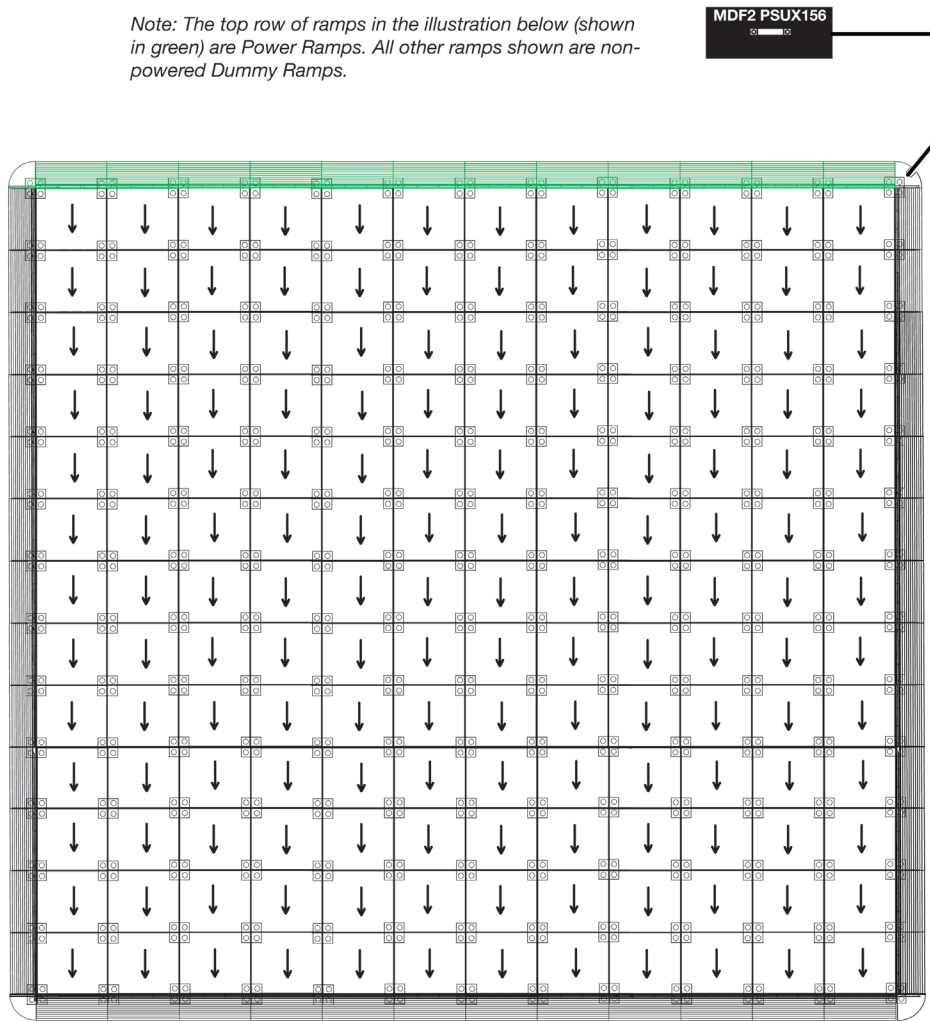
CONNECTIONS

The MDF2PSUX156 features two Power Switches and two Power In connections. The Power 1 switch and port control outlets 1-6, and the Power 2 switch and port control outlets 7-12.

Each of the twelve (12) Power Out connections should be linked via a power cable to a single Power Ramp from the MDF2 system. When used in conjunction with the MDF2PSUX156 power supply, each Power Ramp is able to support a single row of up to thirteen (13) dance floor panels, for a total of 156 dance floor panels.

When installing the dance floor panels in place, pay close attention to the directional orientation arrows located on the side faces of each panel. When placed correctly, these arrows should indicate the direction of power flow from the Power Ramp to the first panel, then to each subsequent panel down the line. ***If the panel is rotated 90 degrees, or if the panel is placed with the directional arrow pointing back towards the power source, the panel will not receive power or be able to transmit power to any subsequent panels down the line.*** Please see the illustration below.

Note: The top row of ramps in the illustration below (shown in green) are Power Ramps. All other ramps shown are non-powered Dummy Ramps.



NOTE: Directional orientation arrows are depicted on the top surface of the panels for the sake of clarity. Actual panels will have directional orientation arrows located on the sides of the panels.

TROUBLE SHOOTING

Below are some common issues that you may encounter during use, along with possible solutions. If the steps below do not solve your problems, please contact the ADJ support line at the phone number or e-mail address listed in the **Introduction** section of this manual.

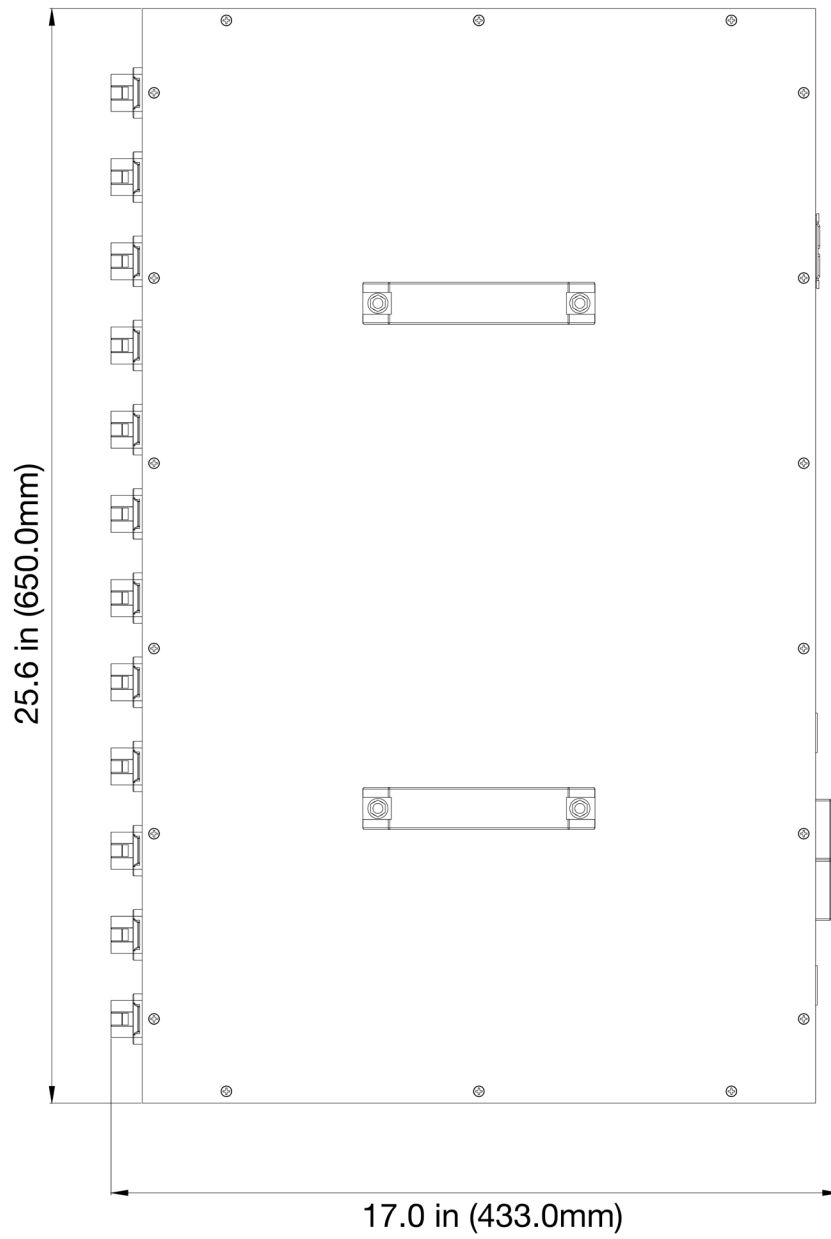
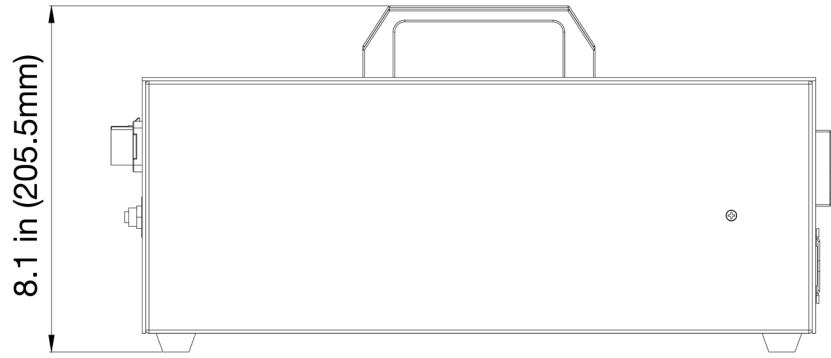
No voltage output from power supply:

- Check that there is voltage output from the power socket.
- Check whether the fuse has been tripped. If so, replace the fuse. It is also strongly advised to check the layout of the dance floor panels to make sure that have been oriented correctly, in order to avoid tripping the fuse again.
- Check that the cable connecting the power supply to the dance floor assembly is securely connected.

Fuse or circuit breaker trips repeatedly:

- Check whether the power demand exceeds the maximum load output of the power supply. If so, reduce the number of dance floor panels connected to this power supply.
- Check whether the fuse itself is faulty. Replace the fuse with a new fuse of the correct type.
- Check the condition of the dance floor panels themselves to ensure that they are not working in an abnormal manner.

DIMENSIONAL DRAWINGS



SPECIFICATIONS

ELECTRICAL

Input Voltage: AC 100-240V, 50/60 Hz

Output Voltage: DC 24V

Maximum Load Power: 3000 W

Load Current: 120 A

Current Overload Protector Trip Time:

- Within 10A of max load: no trip
- 10-15A over max load: trip within 1 hour
- 15-20A over max load: trips in 5.2 to 30 seconds
- 20-30A over max load: trips in 1.5 to 5.5 seconds

DIMENSIONS

Length x Width x Height: 25.6" x 17.0" x 8.1" (650.0mm x 433.0mm x 205.5mm)

Weight: 37.9 lbs (17.2 kg)

AMBIENT OPERATING CONDITIONS

Ambient Operating Temperature: -4°F to 158°F (-20°C to 70°C)

IP Rating: IP20

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Please note that changes or modifications to this product that are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

