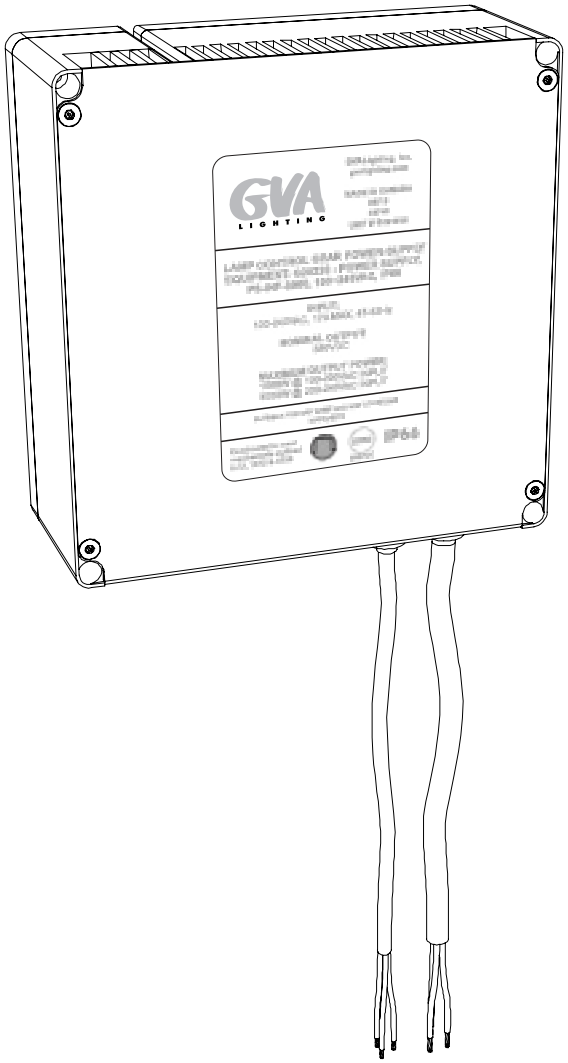
PS-INF 3000 & PDC INF

POWER SUPPLY FOR INFINITY® LIGHTING SYSTEMS

INSTALLATION GUIDE



INFINITY® GVA TECHNOLOGY

REVISION HISTORY		
REVISION NUMBER	REVISION DATE	DESCRIPTION
1	September 08, 2016	Initial Release
2	June 20, 2017	Aesthetic Adjustments
3	July 06, 2018	Corrections, addition of information
4	June 06, 2019	Update of information

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POWER SUPPLY FOR INFINITY® LIGHTING SYSTEMS INSTALLATION GUIDE

CONTENTS

About This Guide....3
Warnings & Cautions....4
Package Contents....5
System Installation & Electrical Requirements....5
Mounting Instructions....6
Typical System Diagram: PS-INF 3000 (for non-dimming INFINITY® lighting systems)....7
Typical System Diagram: PS-INF 3000 & PDC-INF (for dimming INFINITY® lighting systems)....10

ABOUT THIS GUIDE

This Installation Guide describes how to install the following Power Supply Units (PSUs):

G20337: POWER SUPPLY, PS-INF-3000, 120VAC, 1W+N+PE, 60Hz, 16A MAX, 380VDC, 1500W, IP66, NA, REV. 1

G20338: POWER SUPPLY, PS-INF-3000, 208/240VAC, 2W+PE, 60Hz, 16A MAX, 380VDC, 3000W, IP66, NA, REV. 1

G20341: POWER SUPPLY, PS-INF-3000, 220/230/240VAC, 1W+N+PE, 50Hz, 16A MAX, 380VDC, 3000W, IP66, EU, REV.1

Before you begin:

Thank you for purchasing GVA's PS-INF 3000 power supply unit. Before installing the unit, please read this installation guide carefully, gather necessary tools and equipment, and verify the package contents. Remove the unit from its packaging material and follow the instructions correctly for safe operation. Save this guide for future reference. Be sure to always include this installation guide in the packaging when transferring or transporting this product to a different location.

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POWER SUPPLY FOR INFINITY® LIGHTING SYSTEMS

INSTALLATION GUIDE

WARNING

1. Only qualified personnel should be permitted to install, replace, or service this equipment.
2. Only use attachments and/or accessories specified by GVA Lighting.
3. Follow instructions for wall, shelf, or ceiling mounting as recommended by GVA Lighting.
4. Use properly rated and stable input voltage within the range of 100~240V. (Use of non-rated and/or unstable AC input voltage may result in severe damage to the product.
5. Do NOT, under any circumstance, modify or disassemble this product. Doing so may result in a fire, electric shock and/or severe damage to the product.
6. Do NOT touch power cables or power plugs in such circumstances as a lightning storm, as this may cause electric shock.
7. Any severe physical impact on the product, other than what is specified by GVA Lighting, may cause certain components to fall out of place within and break, which may cause fire or electric shock. In such an event, do not operate the product. Contact your authorized GVA Lighting representative for support.
8. Protect the power cord from being walked on or pinched.
9. Do NOT destroy, process, or place the product close to any heating device as this may result in damages to the product.
10. Do NOT bend or twist power cords, power plugs, cables, or wires with excessive force as this may result in damages to the product.
11. Do NOT place any heavy object on the product as this may result in damages to the product.
12. Do NOT touch power cables with wet hands and/or when the power supply is running as this may cause electric shock.
13. Do NOT use any non-rated power sockets and/or power strips with many other devices jointly plugged in. The wire of non-designated capacity may cause fire due to build up heat emission.
14. In case of product malfunction or unusual events, such as electrical burning smell and smoke, immediately turn OFF and contact GVA Lighting.
15. Do NOT install this product in an unstable environment, such as on moving objects, or on unstable surfaces. Improper installation may result in dismounting of the product and may result in equipment damages, fires, personal injury, and death.
16. Do NOT install the product near a poisonous gas or chemically unstable atmosphere as it may cause fire.
17. Do NOT install the product near a strong magnetic or electric field. It may result in equipment damages, fires, electric shock, and personal injury.
18. Do NOT move or transport this product with any power cables connected to the source devices. Damages may occur to the cables, plugs, or jointing connectors of the cables due to forcible bending and stress. This may cause damages to the waterproof seal of the product, making it subject to fire, electric shock, or shorted circuit.
19. When disconnecting the equipment, always hold the plugs of power cords or cables. Improper pulling of the cords or cables may cause damages to the waterproof seal of the product. This may result in equipment damages, shorted circuits, fires, electric shock, and personal injury.
20. Do NOT use any other power cords or connection cables than what is recommended/provided by the manufacturer directly. Use of untested, unauthorized, or substituted power cords and/or connection cables may be a cause for malfunction, fire, electric shock, or severe damages to the product. Also, such use of improper or undesignated power cords or connection cables will void product warranty.
21. Always leave the power OFF when connecting or disconnecting the power cords or connection cables to avoid electric shock or damages to the product.
22. Do NOT use aggressive cleaning agents, such as paint thinner or benzene to clean the exterior of the product. It may cause scratches on the surface, erasing proper indications, identification labels, or instructions on the exterior, which may be a cause for misuse and improper operation of the product.
23. This equipment must be externally grounded using a customer-supplied ground wire before power is applied. Contact the local electrical inspection authority or a licensed electrician if uncertain that suitable grounding is available.
24. Do not work on the system or connect or disconnect cables during periods of lightning activity.
25. No serviceable parts inside the product. Do not open.

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POWER SUPPLY FOR INFINITY® LIGHTING SYSTEMS

PACKAGE CONTENTS

The following items are included with each PSU. Contact your authorized GVA Lighting representative if products are damaged or missing.

1 x PS-INF 3000 Power Supply Unit with input & output cables attached
1 x Installation Guide

NOTE: PDC-INF units purchased for use with the PS-INF 3000 are shipped separately with leader cables.

SYSTEM INSTALLATION & ELECTRICAL REQUIREMENTS

ELECTRICAL CODE:

NOTE: **To the power supply unit installer:**

Check National and/or Local Electrical Codes for guidelines on proper grounding / bonding of electrical systems and circuits. The power cable ground wire (green or green/yellow) must be connected to the grounding system of the facility.

For safety reasons (high leakage current / high touch current) the power cable ground wire (green or green/yellow) must be connected first to the AC Ground (or PE - Protective Earth) terminal, prior to connecting the other AC input wires.

NOTE: Installation shall incorporate UL Listed (or applicable local safety agency listing) external surge protection rated 2500 Vpk or less, for 150 to 300 Vac mains (depending on jurisdiction), installed in accordance with Article 285 of ANSI/NFPA 70 or applicable local codes.

POWER SOURCE:

The product must be connected to the specified voltage indicated on the product label, using a junction box with a Ground or PE connection.

The branch circuit breaker is used as the disconnect device (Line-Neutral for G20337 & G20341 and Line-Line for G20338) and shall remain readily accessible. This product operates on 100-240 Volts, 47-63 Hz, AC current. Never connect the product to anything other than the voltage specified on the product label.

To prevent electric shock from the product, do not use with an extension cord, receptacle, or other outlets. This product has to be connected to a separate AC line branch.

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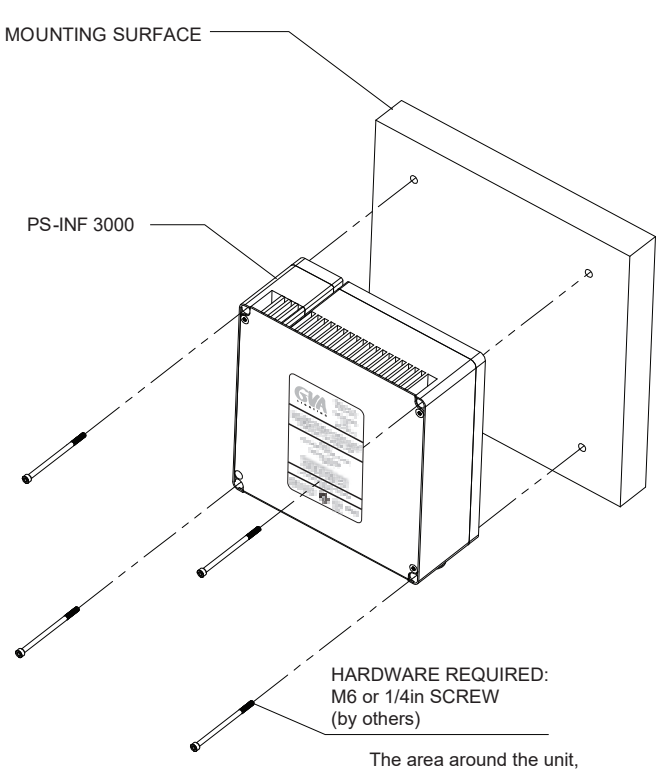
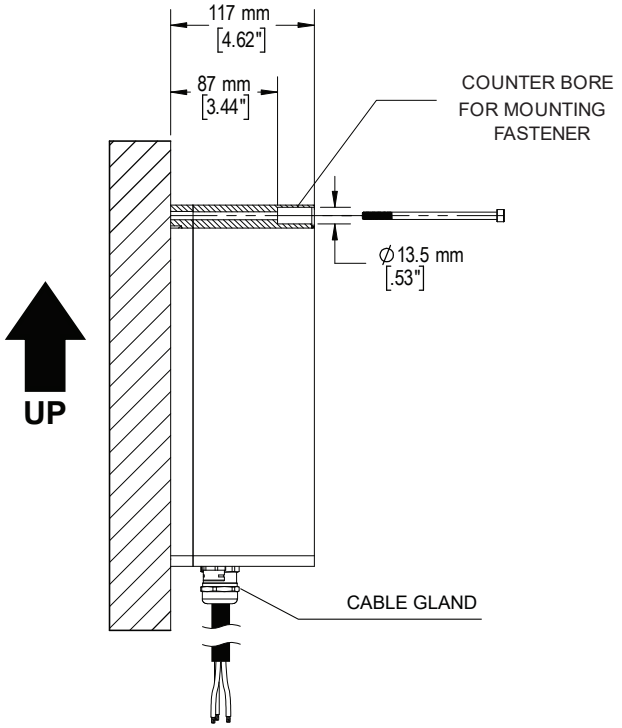
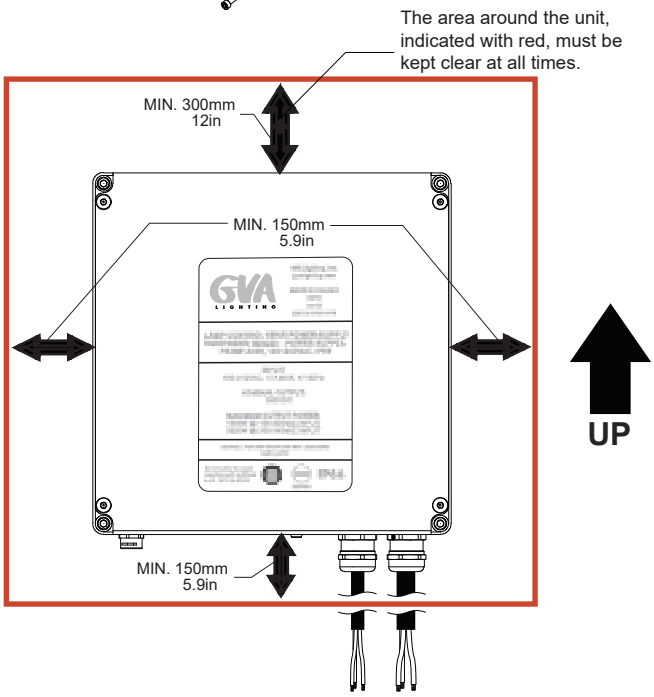
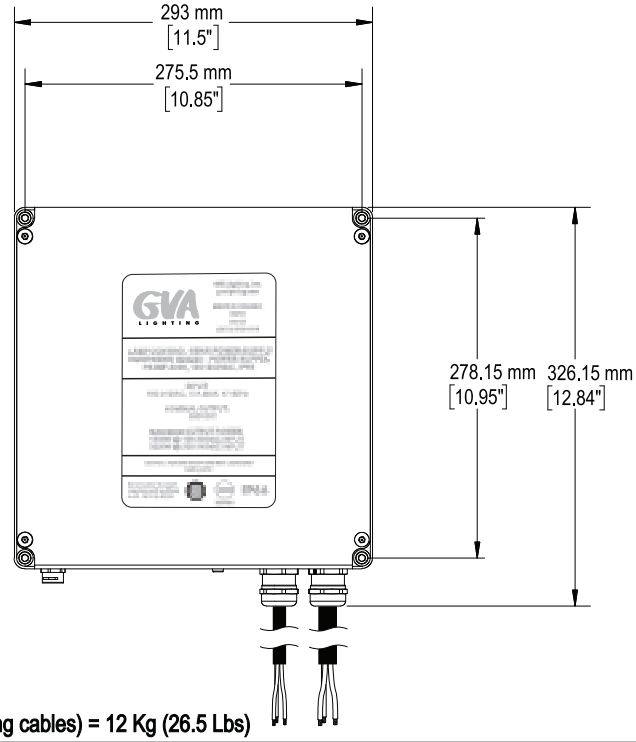
MOUNTING INSTRUCTIONS

WARNING For safety reasons, only mount with a UL listed wall mount bracket (if used) that supports the weight of the enclosure (12 Kg or 26.5 lbs) and any hardware.
When mounting the enclosure outdoors or in harsh environments, only use wall mounts that are designed to resist water, rust and wind.
Install PS-INF 3000 in a well-ventilated area. Keep recommended distances from the walls / other obstacles. Do NOT block fans on top of the power supply unit.









Total weight PS-INF 3000 (including cables) = 12 Kg (26.5 Lbs)

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TYPICAL SYSTEM DIAGRAM: PS-INF 3000, NON-DIMMING

For non-dimming INFINITY® lighting systems.

CAUTION	When routing cables through the cable entry be sure that the cables are formed in such a way as to remove any stress on the cable glands. Installation shall be in accordance with the applicable parts of Chapter 8 of ANSI/NFPA70 or applicable local codes.

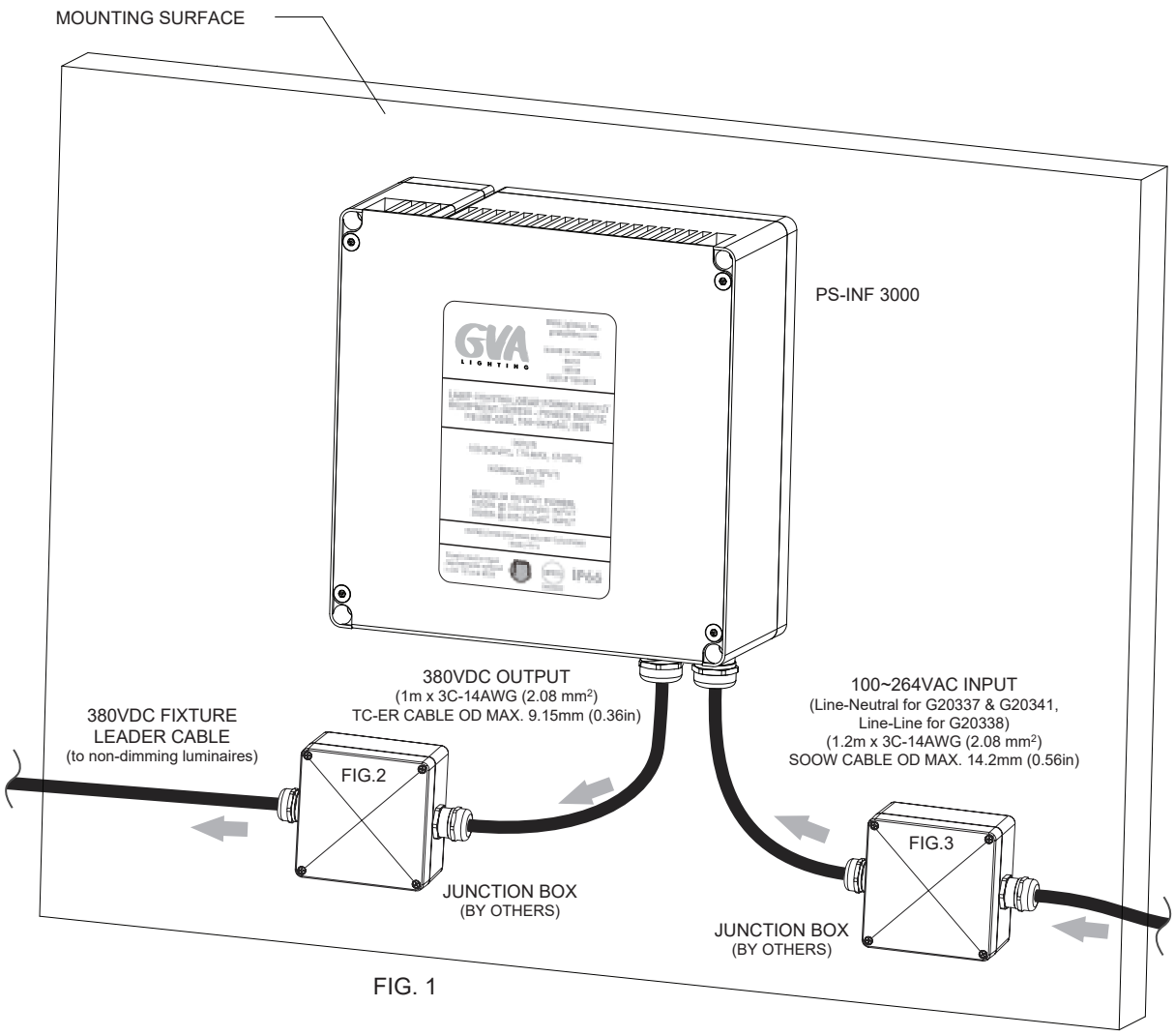

FIG. 1

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TYPICAL SYSTEM DIAGRAM: PS-INF 3000, NON-DIMMING

FIGURE 2: JUNCTION BOX CONNECTION (by others)

NOTE: This is a sample drawing. Actual junction boxes (supplied by others) may vary in appearance.

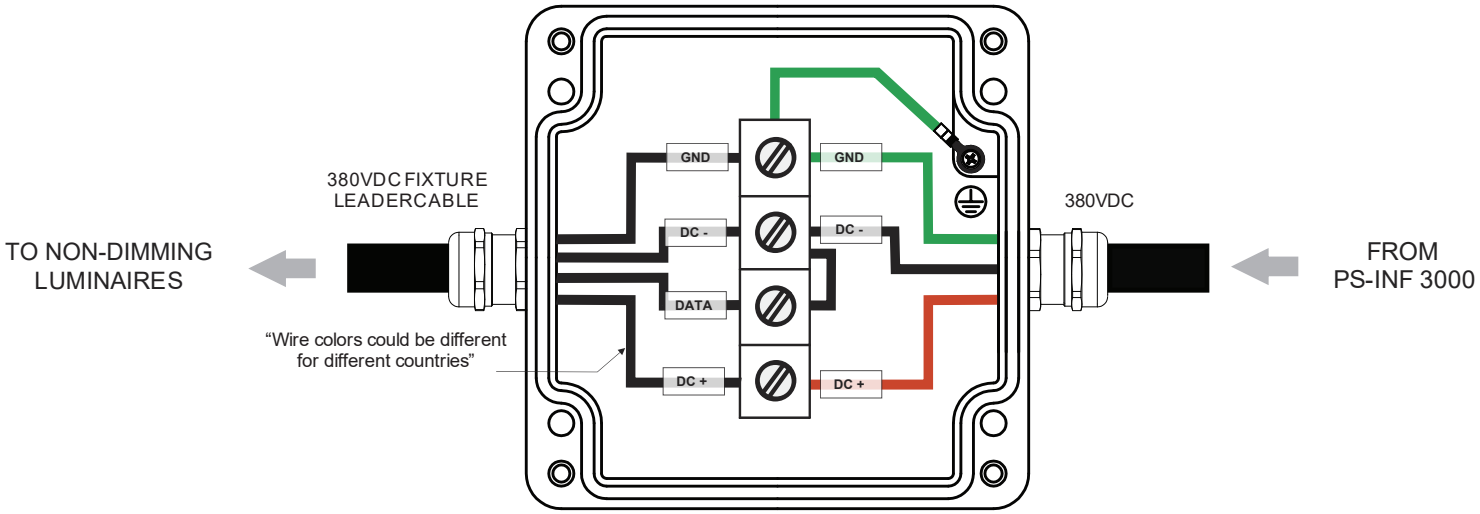

FIG. 2

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TYPICAL SYSTEM DIAGRAM: PS-INF 3000, NON-DIMMING

FIGURE 3.1. Junction Box Connection for G20337 (Line, Neutral, Protective Earth) - North America

NOTE: This is a sample drawing. Actual junction boxes (supplied by others) may vary in appearance.

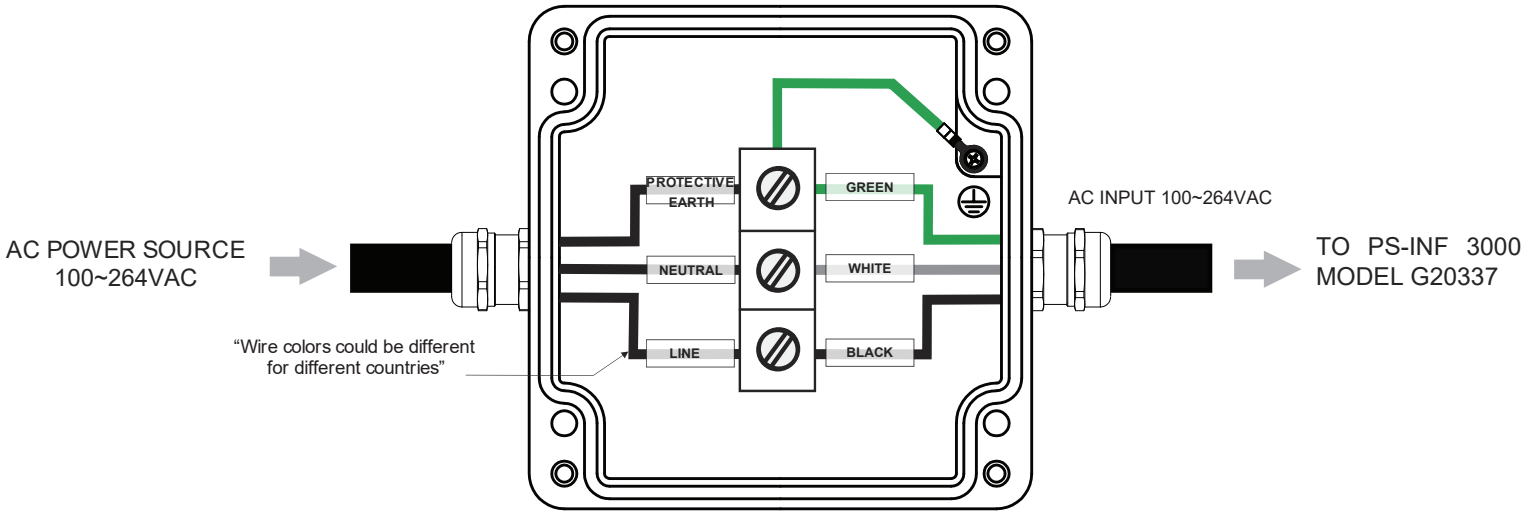

FIG. 3.1

FIGURE 3.2. Junction Box Connection for G20341 (Line, Neutral, Protective Earth) - Europe

NOTE: This is a sample drawing. Actual junction boxes (supplied by others) may vary in appearance.

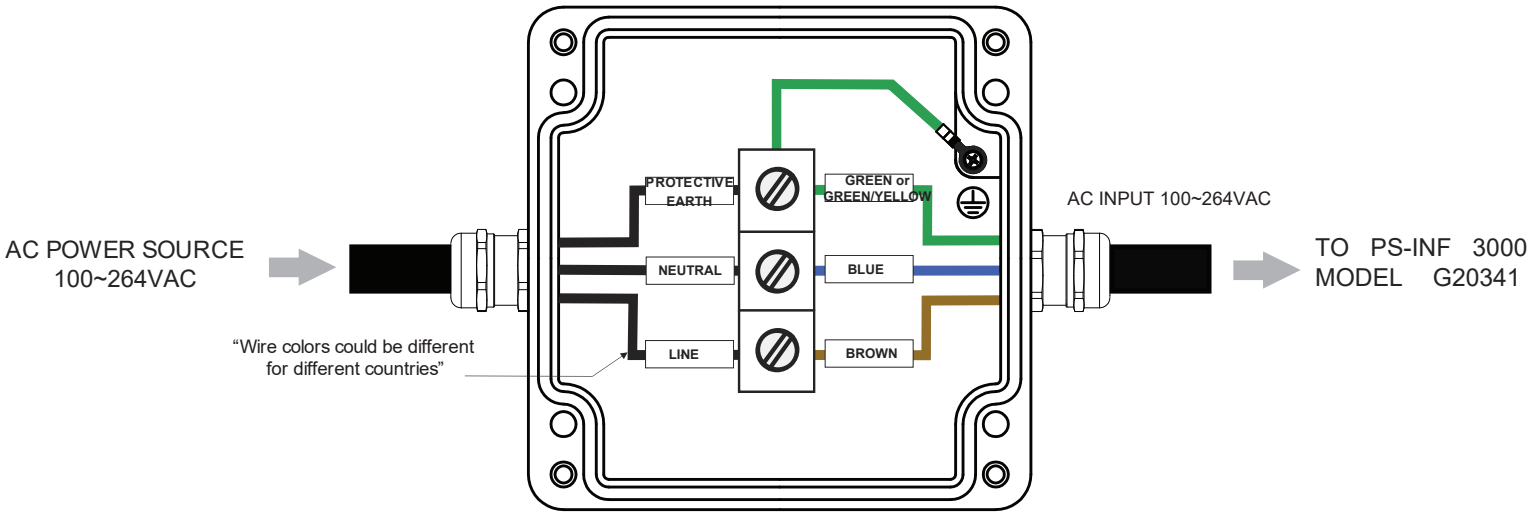

FIG. 3.2

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TYPICAL SYSTEM DIAGRAM: PS-INF 3000, NON-DIMMING

FIGURE 3.3. Junction Box Connection for G20338 (Line, Line, Protective Earth) - North America

NOTE: This is a sample drawing. Actual junction boxes (supplied by others) may vary in appearance.

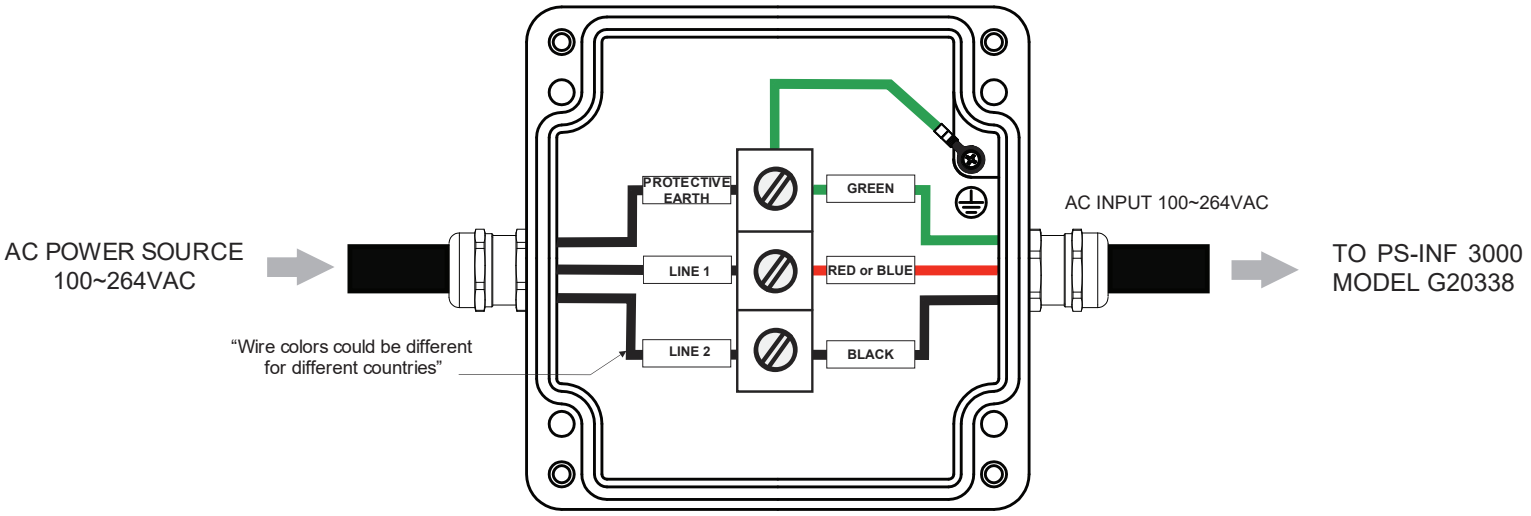

FIG. 3.3

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TYPICAL SYSTEM DIAGRAM: PS-INF 3000 & PDC-INF, DIMMING

For dimming INFINITY® lighting systems.

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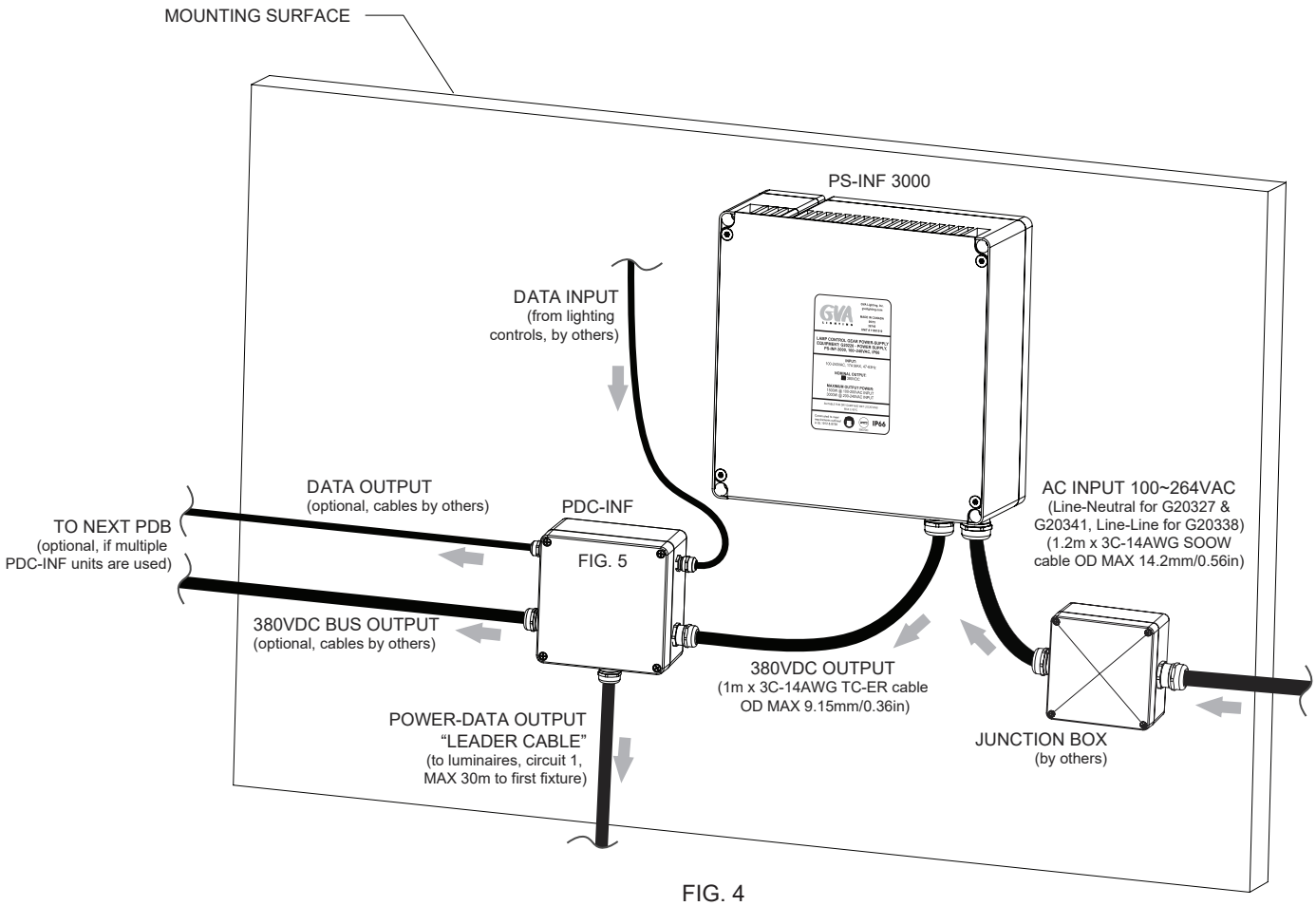

FIG. 4

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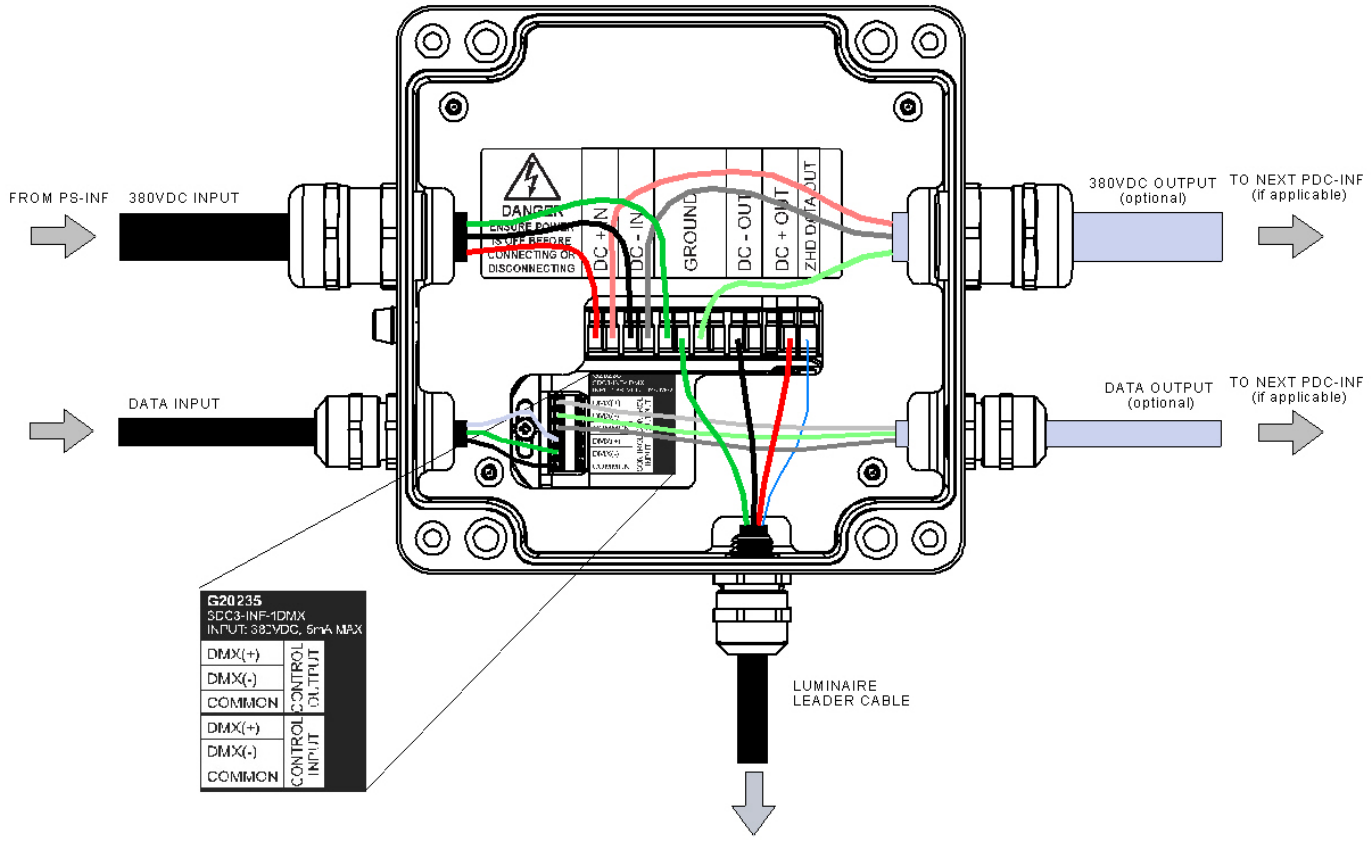
TYPICAL SYSTEM DIAGRAM: PS-INF 3000 & PDC-INF, DIMMING

FIGURE 5. PDC-INF



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