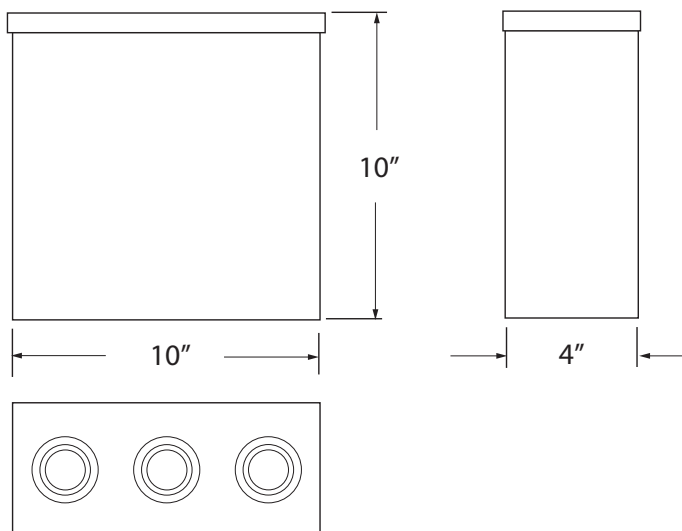


Profile Dimensions



Please verify the contents of the packages!

Please read instructions entirely before starting installation

Be sure power is turned off before installing or modifying the system

Call Tivoli, LLC tech support with questions

Caution: This Power Supply is designed to work on 120-277V AC line voltage only. Use of any other power source will cause damage, shorten the life of the fixture and will void the warranty.

Consult any and all applicable local and national codes for installation.

Do not conceal or extend exposed conductors through a building wall as per local electrical code.

Warning: With any luminaire or power supply for any application, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injuries. This power supply should be installed by a certified professional.

Installation Instructions



Mounting Location Requirements

It is recommended that the enclosure be mounted with at least 10" of open space around it for proper ventilation. Do not mount next to or above heat radiating equipment. Operating under high ambient temperature may increase the internal temperature and will require a de-rating in output current. This power supply will operate efficiently between -40° C to +80° C with adequate ventilation. The enclosure is NEMA 1 rated for indoor applications.

Indoor Installation

Step 1: Locate Power Supply enclosure (NEMA 1 rated) in a suitable indoor location.

Step 2: Note the spacing of the mounting holes when determining mounting location.

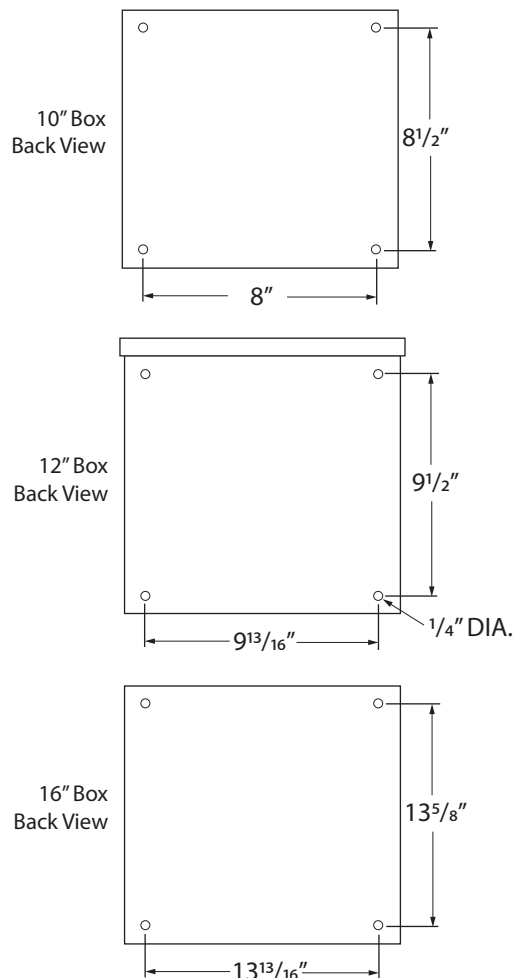
Step 3: Knock out access holes as needed. The 12" and 16" Boxes have knockouts only along the bottom of the box.

Step 4: Install strain reliefs (wire clamps) for 1/2" hole size. Input lead wires are 18AWG. Output lead wires are 14AWG.

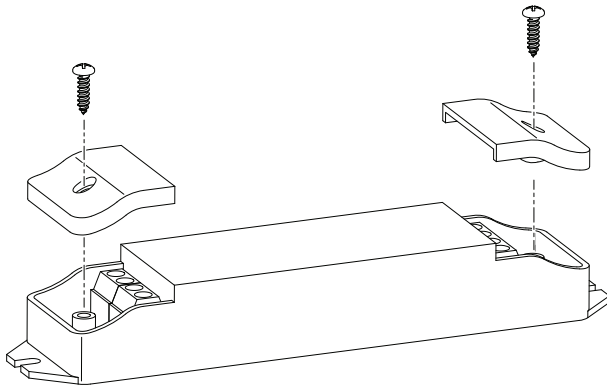
Input Connection:

Bring external Positive (Black) and Negative (White) Power Lines through Strain Relief on the input side of the Transformer. Connect to Black and White Transformer Leads using the correct size and UL approved Wire Nuts.

Grounding: Connect the Green Ground Wire from inside the enclosure and the Green Transformer wire to incoming ground wire.



Driver Connections



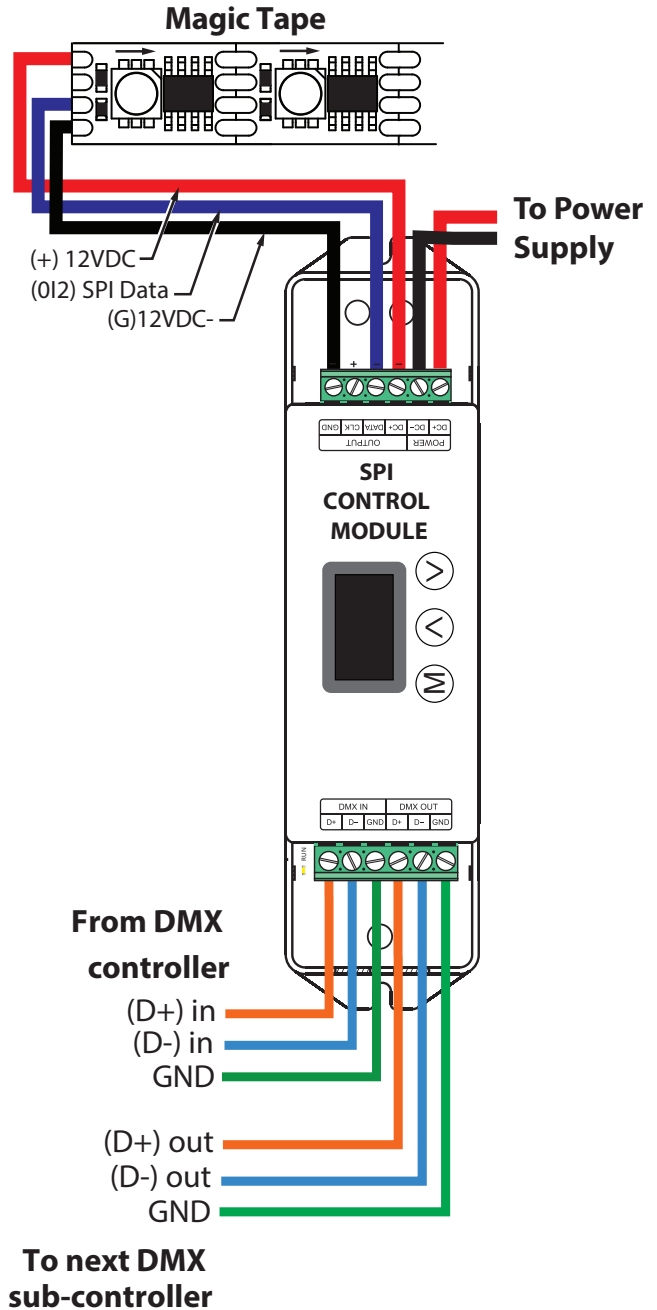
Remove SPI Controller Cover: Unscrew covers from each end of SPI controller, as needed.

Connect Luminaire: Connect one luminaire linear run to each Terminal Connector. ADUL-SPI power supplies may have from one to four circuits, depending on model. For example, the **ADUL-320-3-5-12-SPI** can accommodate up to 3 runs of Magic Tape™ when each run is 13' in length. **ADUL-60-1-5-12-SPI** power supply has one circuit. Installer is responsible for selecting the right size wire for run length and total wattage for each circuit. Do not exceed rated watts per circuit.

Power Supply: Connect transformer input to 120-277V AC line voltage.

Connect DMX Controller: Connect RGB controller (DMX512 signal) to SPI Controller. Connect DMX Controller to the DMX in +, DMX - and Ground connectors.

Replace Cover: Replace covers and tighten screws.

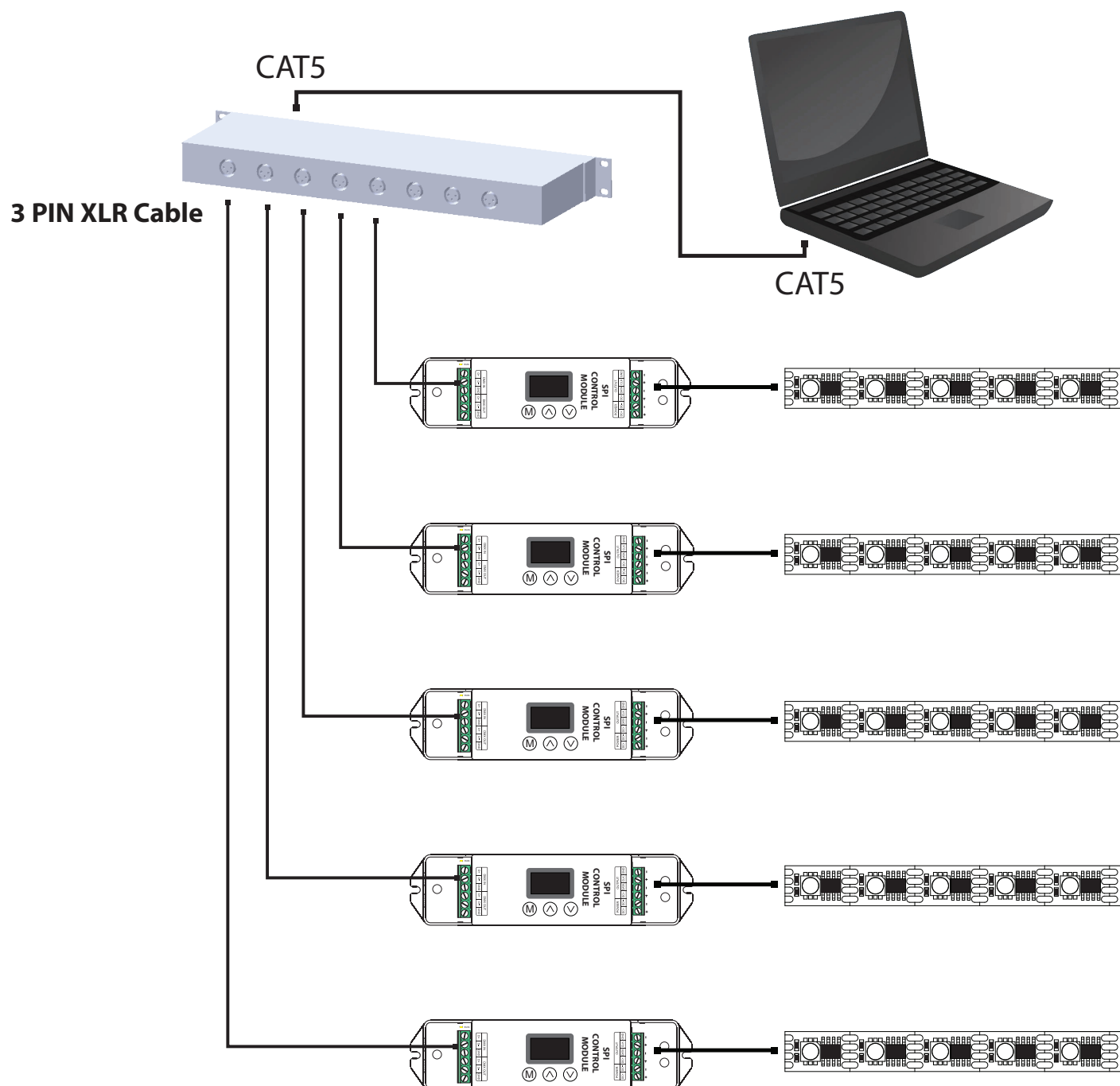


Warnings and Cautions

1. Risk of electrical shock and energy hazard. All failures should be examined by a qualified technician. Do not open the case of the power supply module.

2. Do not install LED power supplies in places with high ambient temperature or close to a fire source.

720D Driver Connections

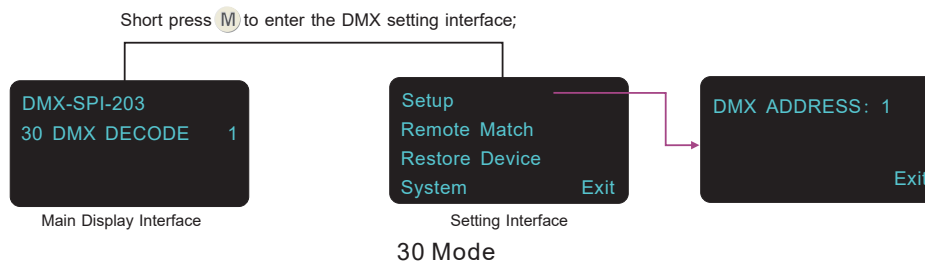
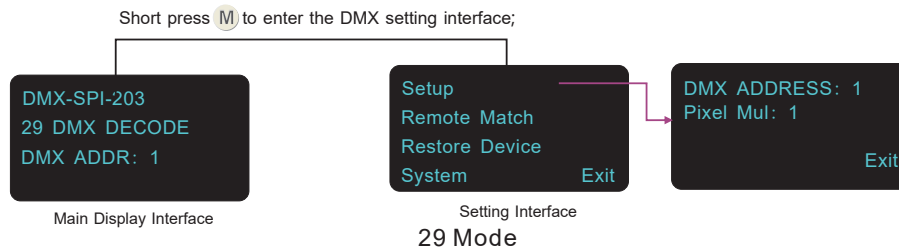
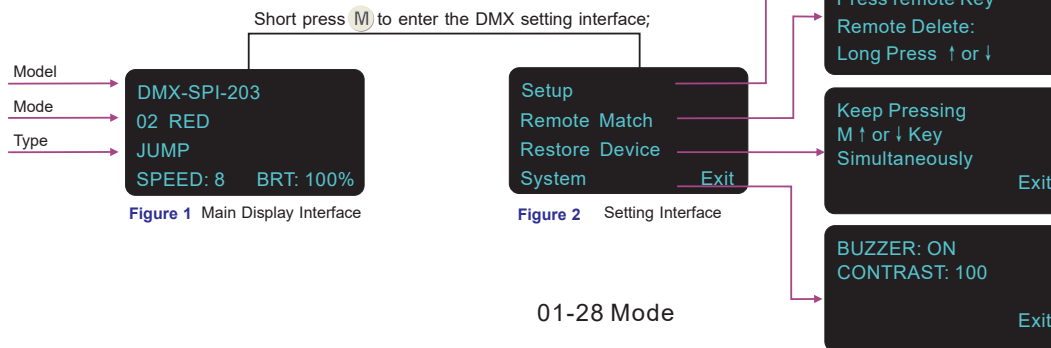


OLED Screen Interface Diagram

Press "M" key to change menus.

Press "▲" or "▼" key to scroll menu.

Press and hold "M" key to return to the main menu (Figure 1).



Mode Table

No.	Changing Color	No.	Changing Color	No.	Changing Color	No.	Changing Color	No.	Changing Color	No.	Changing Color
1	BLA(black)	6	PUR(purple)	11	B/W(blue/white)	16	R/P(red/purple)	21	Y/P(yellow/purple)	26	G/B(green/blue)
2	RED(red)	7	GYN(cyan)	12	Y/W(yellow/white)	17	G/Y(green/yellow)	22	Y/C(yellow/cyan)	27	RGB
3	GRN(green)	8	WHI(white)	13	P/W(purple/white)	18	G/C(green/cyan)	23	P/C(purple/cyan)	28	ALL(all color)
4	BLU(blue)	9	R/W(red/white)	14	C/W(cyan/white)	19	B/P(blue/purple)	24	R/G(red/green)	29	DMX decode
5	YLW(yellow)	10	G/W(green/white)	15	R/Y(red/yellow)	20	B/C(blue/cyan)	25	R/B(red/blue)	30	DMX mode

Display [DMX-SPI-203 Cycle] after 30 mode: Cycle play scene 1-7.

In 2-28 modes, you can use the remote control to choose light changing types (JUMP, FLASH, SMOOTH, FADE, FLOW, CHASE, METEOR, FLOAT) and light moving directions (←, →, ←→, →←), which compose 540 kinds of changing modes.

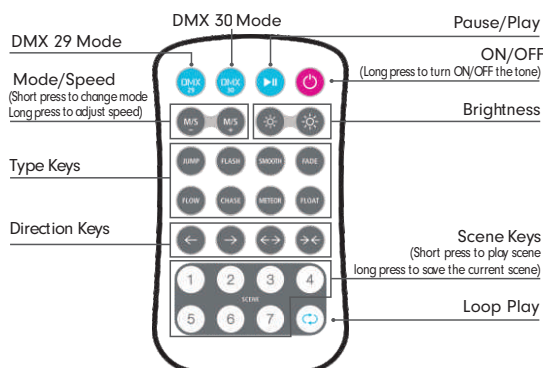
Channel Settings Table

Mode 29 Settings		
Function Modes	Channel	Function
Mode 29 DMX Decoder Mode	Channel 1	0-255(R) : Red LED 0-100% dimming
	Channel 2	0-255(G) : Green LED 0-100% dimming
	Channel 3	0-255(B) : Blue LED 0-100% dimming

Mode 30 Settings			
Channel	Function	Channel	Function
CH1(0-223)	Select 1-28 modes	CH1 (224-255)	Select 29 mode
CH2 (0-255)	Adjust speed of mode 1-28 (8 levels)	CH2 (0-255)	Red LED 0-100% dimming
CH3 (0-255)	Adjust brightness of mode 1-28 (8 levels)	CH3 (0-255)	Green LED 0-100% dimming
CH4 (0-255)	Select 8 changing types of mode 1-28 (jump, flash, smooth, fade, flow, chase, meteor, float)	Ch4 (0-255)	Blue LED 0-100% dimming
CH5 (0-255):	Select 4 changing directions of mode 1-28 forward (↑), reverse (↓), close (I), Split (↓)		
CH6 (0-255)	Flashing speed for mode 1-28		

Remote Control

Function Keys



The Learning Remote Method

The controller and remote are pre-synced at the factory. If deleted accidentally, the sync method is as follows:

Firstly, press M key on the controller to enter the setting interface. Secondly, press the M key again to switch to "remote match" entry.

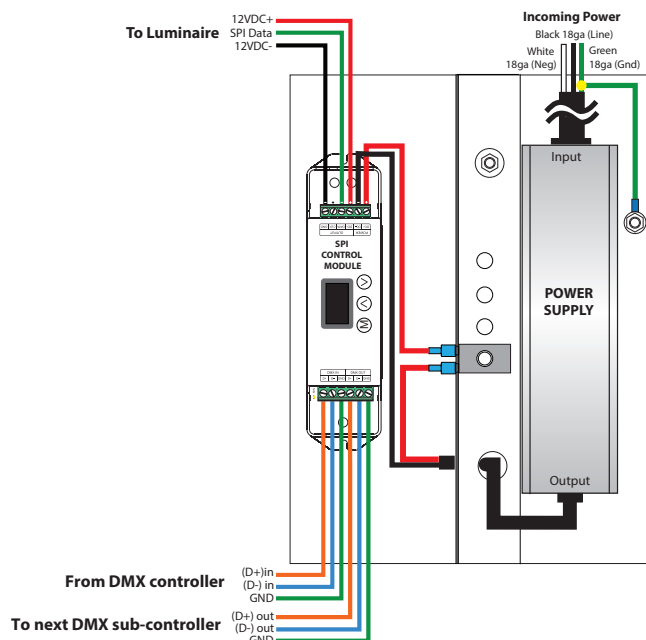
Then, press "Λ" or "V" button to enter remote learning interface: Press any key on the remote control to match with the controller.

Long press "Λ" or "V" button to delete ID, which cancels the match.

Basic Wiring Diagrams for ADUL-SPI Power Supply Options

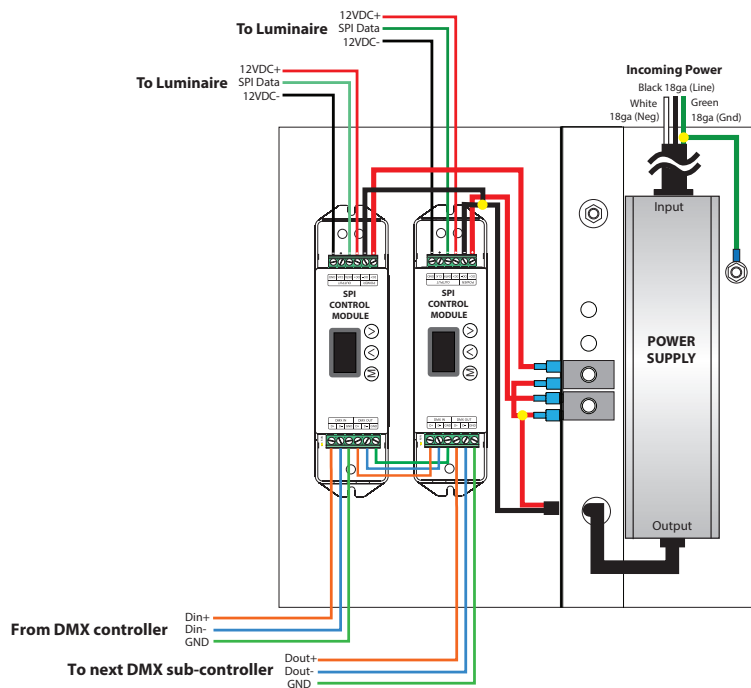
ADUL-60-1-5-12-SPI
120-277V AC / 12V DC
60W / 1 Circuit X 5A

BOX SIZE:
10" X 10" X 4"
NEMA 1



ADUL-150-2-5-12-SPI
120-277V AC / 12V DC
120W / 2 CIRCUITS X 5A

BOX SIZE:
12" X 12" X 4"
NEMA 1



Basic Wiring Diagrams for ADUL-SPI Power Supply Options

ADUL-240-3-5-12-SPI

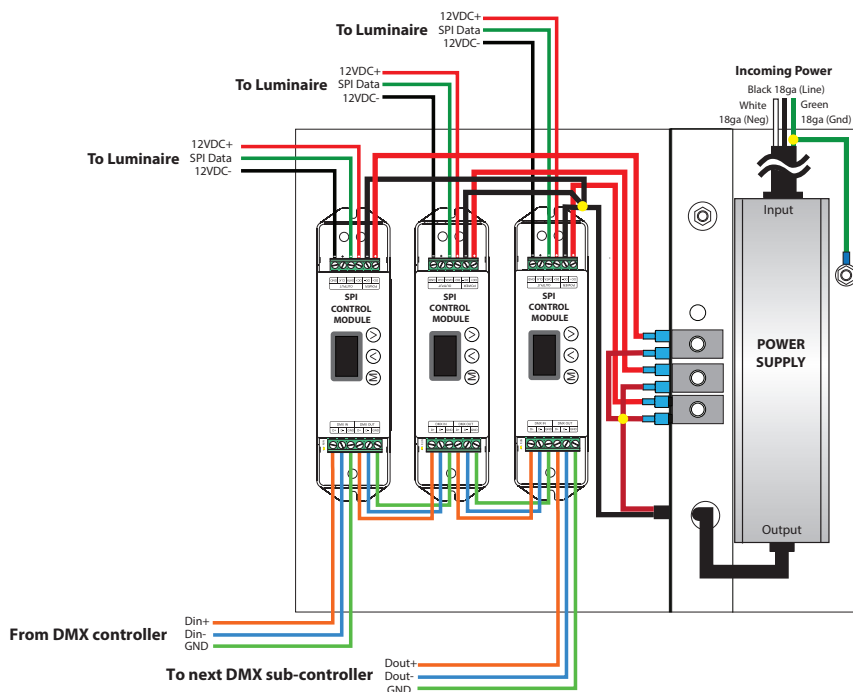
120-277V AC / 12V DC

180W / 3 CIRCUITS X 5A

BOX SIZE:

16" X 16" X 4"

NEMA 3



ADUL-320-4-5-12-SPI

120-277V AC / 12V DC

240W / 5 CIRCUITS X 5A

BOX SIZE:

16" X 16" X 4"

NEMA 3

