PRODUCT DATA:

MODEL	LLI-PS-DEC-DMX512-075W-24V	LLI-PS-DEC-DMX512-096W-24V	LLI-PS-DEC-DMX512-200W-24V
OUTPUT VOLTAGE	24V DC		
OUTPUT VOLTAGE	75 W (Class 2)	96 W (Class 2)	200 W (Class 1)
DIMMING	PWM digital dimming, 0.1 - 100%, Logarithmic or linear dimming curve selectable		
IP RATING	IP20 - dry locations		
PROTECTION	Over-current and over-temperature protection: auto recover after fault condition is resolved		
OPERATING TEMP	-4° to 113° F		
PROTOCOL	DMX512		
REQUIRED COMPONENTS TO COMPLETE INSTALLATION	LED Tapelight & Controller		

⚠ SAFETY INFORMATION

WARNING: These products may represent a potential shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with these instructions, local electrical codes and the National Electric Code (NEC).

• Read complete instruction.

• Do not use if there is any damage to the unit or to the wiring/insulation. Inspect periodically.

• Ensure wires are in compliance with local electrical codes.

• The driver must be mounted in an area with at least 15 inches of free flow air space for ventilation.

• Do not install driver in hot environments or near heat-radiating objects.

• Ambient temperature should not exceed 110°F or 50°C.

• Recommended load is 80% for optimal performance and lifespan.
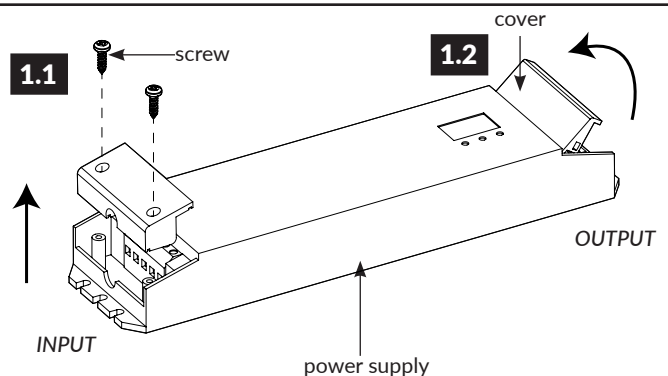
Install the Power Supply

1

INSTALLATION NOTES:
• Review all the parts and quantities to confirm if all the necessary parts are available.

1.1 *For 75W & 96W models only:* Remove the 2 screws from the cover on the input side of the power supply, followed by removing completely. Slide open the output cover to access the terminals connections on the power supply.

1.1 *For 200W models only:* Carefully pull the 2 covers off, if needed insert a flat head screw driver into the sides to par off to access the terminals connections on the power supply.

1.1 screw   cover   **1.2**
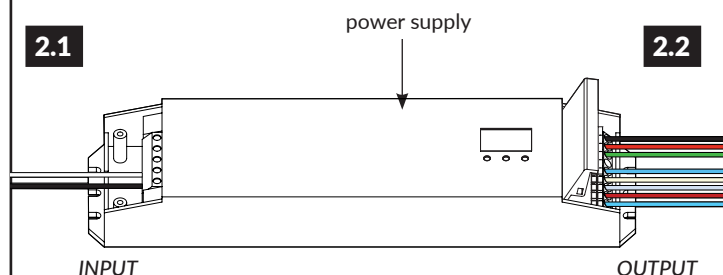
INPUT   OUTPUT   power supply

75W Model Shown

2

INSTALLATION NOTES:
• Reference the wiring diagram on page 4 for specific model details.

2.1 Connect the 120-277V AC power into the input terminals from the main panel.

2.2 Bring the 24V DC low voltage wires from the Tapelight & controller wires. For additional information reference diagram on page 3 to make all the proper wiring connections.

2.1   power supply   **2.2**
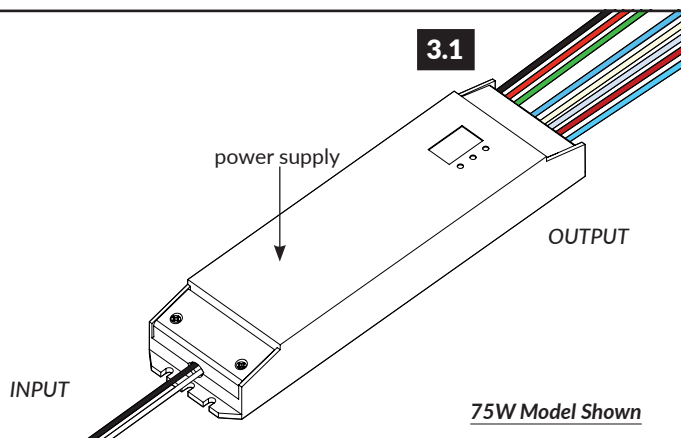
INPUT   OUTPUT

75W Model Shown

3

3.1 Replace the power supply covers.

INSTALLATION NOTES:
• Make sure not to nick the wires when closing the covers.

3.2 Program decoder, reference page 3 for specifics.

3.1

power supply   OUTPUT

INPUT   *75W Model Shown*

Low Voltage Wire Gauge Chart

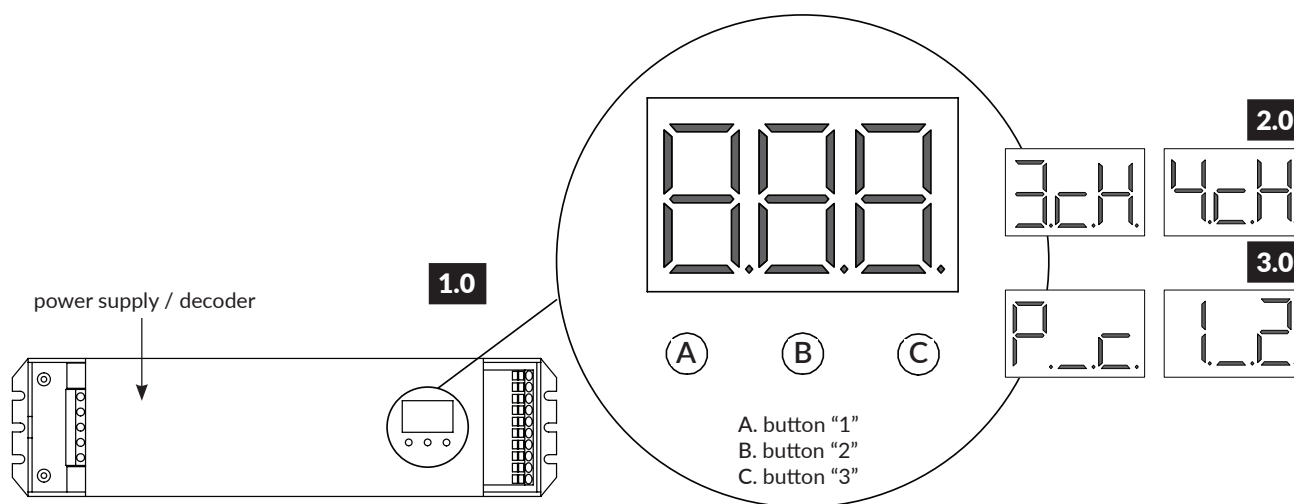| 24V DC Voltage Drop and Wire Length (ft.) Distance Chart												
Power (W)	10W	20W	30W	40W	50W	60W	70W	80W	90W	100W	110W	120W
#18	189'	94'	63'	47'	38'	31'	27'	24'	21'	19'	17'	16'
#16	300'	149'	100'	76'	60'	50'	43'	37'	33'	30'	27'	25'
#14	478'	238'	159'	120'	95'	79'	68'	60'	53'	48'	43'	40'
#12	753'	274'	250'	189'	150'	125'	108'	94'	83'	75'	68'	63'
#10	1205'	599'	400'	303'	240'	200'	172'	150'	133'	120'	109'	100'

(Left column label: Wire Gauge)

Programming Decoder

1. Set DMX Manually Via Buttons

1.1 Press and hold down button "1" until numeric digital display flashes, then release the button.
1.2 Click any of the 3 buttons one time to select a digit, click again to change the digit until the desired DMX address appears. Click button "1" to set "hundreds" position, button "2" to set "tens" position and button "3" to set "units" position.
1.3 Then press and hold down any of the 3 buttons until the numeric digital display stops flashing to confirm the setting.

2. Set DMX Channel Quantity

2.1 Press and hold down both "2" and "3" button until the digital display flashes with "cH", then release the buttons.
2.2 Click button"1" to choose 1cH, 2cH, 3cH, 4cH, which means total 1, 2, 3, 4 DMX channels . Then press and hold down any of the 3 buttons until digital display stops flashing to confirm the setting. Factory default setting is 4 channel output.

power supply / decoder

1.0

2.0

3.0

A. button "1"
B. button "2"
C. button "3"

NOTES:
Example when address set to 001.
When 1cH selected, all channels will be the address 001.
When 2cH selected, channels 1 & 3 will be addressed to 001, channel 2 & 4 will be addressed to 002.
When 3cH selected, channels 1 will be address 001, channel 2 will be address 002, channel 3 will be address 003, channel 4 will be address 001.
When 4cH selected, channels 1, 2, 3, 4 will be addressed to 001, 002, 003, 004 respectively.

3. Set Output PWM Frequency

3.1 Press and hold down both button "1" and button "3" until the digital display flashes with "P_c", thne release the buttons.
3.2 "P" means PWM frequency , 2 PWM frequencies are available, click button "1" to choose "1" or "2", "1" stands for 1500Hz and "2" stands for 200Hz.
3.3 "c" means dimming options, 2 options are available, click button "3" to choose "1" or "2", "1" stands for logarithmic dimming and "2" stands for linear dimming.
3.4 Press and hold down any of the 3 buttons until digital display stops flashing to confirm setting. Factory default setting is 1-2 which means 1500Hz frequency with linear dimming.

LLI ARCHITECTURAL LIGHTING

Wiring Diagrams

75W Power Supply & Decoder

96W Power Supply & Decoder

200W Power Supply & Decoder