

LUMASCAPE INC 1300 Industrial Rd, Unit #19 San Carlos, CA 94070, USA (650) 595-5862 www.lumascape.com

Free Call: (866) 695-5862

INSTALLATION INSTRUCTIONS

POWER AND CONTROL

MODEL: LS6510 & LS6520

120V, 50/60Hz, 240W only c(UL)

LS6510 & LS6520

LS6510: LS6520: 120-277V, 50/60Hz,120W, 240W, 320W

Warranty void if not installed per instructions and local electrical code

WARNING

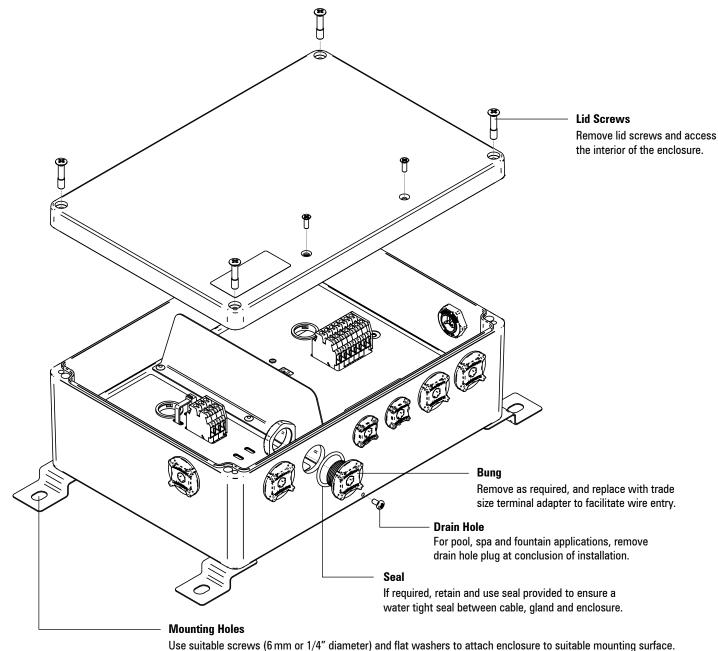
Install in accordance with National Electric Code, ANSI/NFPA 70 or the Canadian Electrical Code, Part I (CEC), CSA C22.1

IMPORTANT INFORMATION

For outdoor use only. Mount at least 30cm (12") above ground.

INPUT VOLTAGE:

Please allow about 90 seconds for power supply control electronics to initialize upon startup.



Enclosure should be mounted in a vertical orientation at least 30cm (12") above grade..

Should you experience any difficulty, please contact Lumascape directly: phone (866) 695-5862 or email info@lumascape.com

IF IN DOUBT, PLEASE CALL

Overview PowerSync™ Output

Mode Switch

Mode Designation 0 DMX / RDM 1 DMX / RDM with SIP 2 3 0-10 V dimming 4 5 0-10 V dimming (inverted) 6 7 TEST: 4-channel cycle 8 TEST: All channels ON 9 TEST: All channels OFF

LED Indicator Lights

	Indicator LED	Colour / State	Description
	Power	Off	Circuit is unpowered
		Red (Solid)	Circuit is powered
	Status	Off	Relay Off, Circuit unpowered, Circuit powered but microcontroller not completed startup
		Green (Solid)	Relay On – Circuit operational
		Red (Solid)	Relay Off – short detected
	Check	Off	Circuit is unpowered, Circuit is powered and no PowerSync fault detected
		Red (Solid)	PowerSync fault detected
	DMX Traffic	Blue (flashing rapidly)	0-10V Mode: Flashing between 1Hz – 20Hz, equivalent to normalised 0-10V input
			DMX/RDM Mode: DMX/RDM traffic is present
		Blue (1s on, 4s off)	DMX/RDM Mode: No DMX/RDM traffic is present, heartbeat indicator

Secondary Circuit Grounding Terminal

Use ring terminal (sized to suit wire gauge and 3/16" stud) to connect secondary grounding circuit. Connect only if directed by luminaire manufacturers installation instructions



♦ LUMA	SCAPE POW	ersync tm
OMX traffic Check Status Status Status Status Mode		
SO DOWN DIMX out	Forge with diseases when the forget	O —
5 on 1.1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-9mm	Data + - Sync out
	AFFIX PRODUCT LABEL HERE	

Power in

Label	Designation			
	15	120 V	LS6510	
L	Live	120-277 V	LS6520	
(±)	Earth			
N	Neutral			

Wireless DMX system (optional) Label Designation

+ Power + (48 V DC) - Power For use with Lumascape wireless DMX system only.

PowerSync™ Out

Label	Luminaire Wire Colour	Designation
Power +	Red	Power +
Power -	Black	Power -
Data +	Orange	Data +
Data -	Grey	Data —

DMX in/DMX out

		Pin out			Cat 5 wire colour	
Label	Designation	3-pin XLR	5-pin XLR	RJ45	T568A	T568B
+	Data +	3	3	1	White / Green	White / Orange
-	Data —	2	2	2	Green	Orange
GND	Ground	1	1	7	White / Brown	White / Brown

Note - when multiple DMX devices are connected, the last one in the string must be terminated using LS6407 DMX Terminator across the D+ and D-.

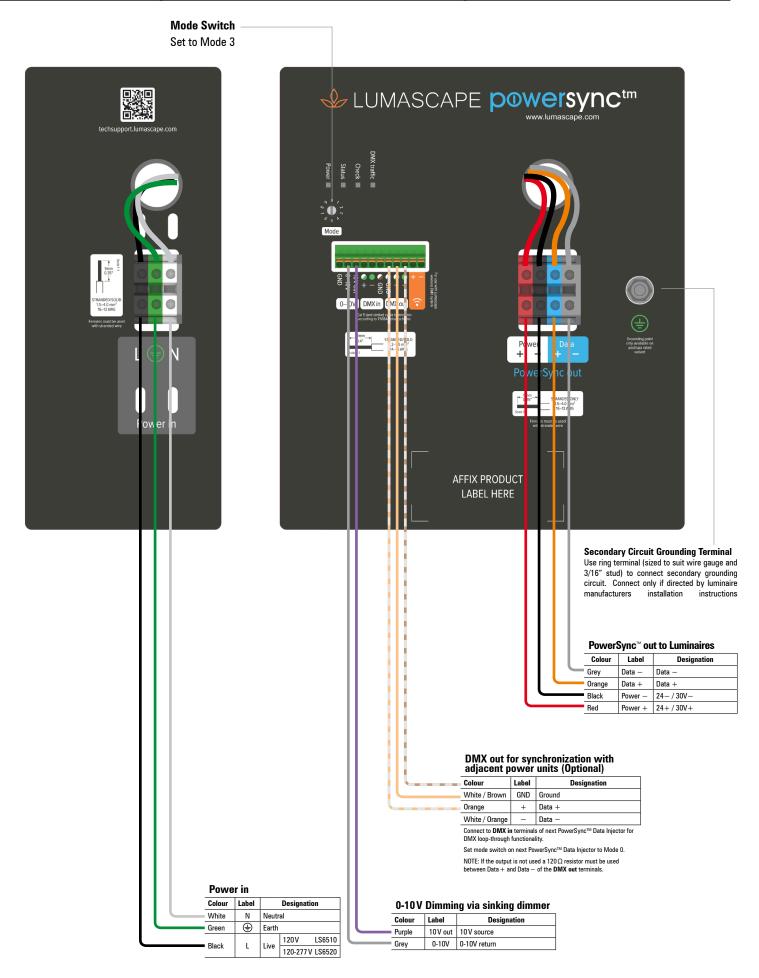
0-10 V in

Label	Designation			
	Use with 0-10 V Sinking Dimmers	Use with 0-10 V Sourcing Dimmers		
10 V	10 V source (purple wire)	Not connected		
0-10V	0-10V return (grey wire)	0-10V+		
GND	Not connected	0-10V-		

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0-10V / DMX Synchronization for PowerSync™ Output

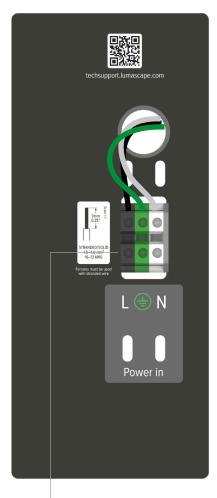


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Overview PWM Dimming



Power in

Designation 120V

120-277V LS6520

LS6510

Label

L Live

(1)

Earth Neutral

Rotary Switches

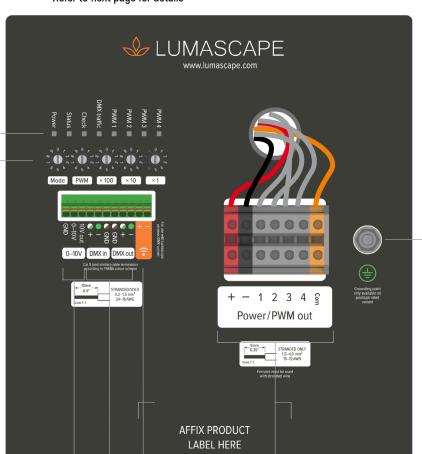
Refer to next page for details

Status Indicators

Refer to next page for details

Secondary Circuit Grounding Terminal

Use ring terminal (sized to suit wire gauge and 3/16" stud) to connect secondary grounding circuit. Connect only if directed by luminaire installation instructions



Wireless DMX

	syste	em (optional)	
	Label	Designation	
	+	Power + (48 V DC)	
	-	Power –	
	vith Lumascape wireless		

DMX system only.

Power/PWM out

/				
Label	Luminaire Wire Colour	Designation		
+	Red	Power +		
-	Black	Power -		
1	Grey	Channel 1 —		
2	Grey	Channel 2 —		
3	Grey	Channel 3 —		
4	Grey	Channel 4 -		
GND	Orange	Common +		

DMX in/DMX out

		Pin out			Cat 5 wire colour	
Label	Designation	3-pin XLR	5-pin XLR	RJ45	T568A	T568B
+	Data +	3	3	1	White / Green	White / Orange
_	Data —	2	2	2	Green	Orange
GND	Ground	1	1	7	White / Brown	White / Brown

Note - when multiple DMX devices are connected, the last one in the string must be terminated using LS6407 DMX Terminator across the D+ and D-.

0-10 V in

Label	Designation			
	Use with 0-10 V Sinking Dimmers	Use with 0-10 V Sourcing Dimmers		
10 V	10 V source (purple wire)	Not connected		
0-10V	0-10V return (grey wire)	0-10V+		
GND	Not connected	0-10V-		

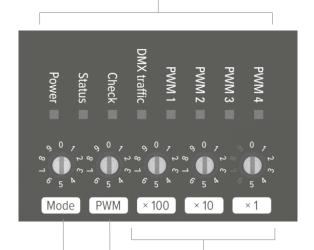
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Overview PWM Dimming - Switches and LED Indicators

LED Indicator Lights

Indicator LED	Colour / State	Description
Power	Off	Circuit is unpowered
	Red (Solid)	Circuit is powered
Status	Off	Relay Off, Circuit unpowered, Circuit powered but microcontroller not completed startup
	Green (Solid)	Relay On – Circuit operational
	Red (Solid)	Relay Off – short detected
Check	Off	Circuit is unpowered, Circuit is powered and no PowerSync fault detected
	Red (Solid)	PowerSync fault detected
DMX Traffic	Blue (flashing rapidly)	0-10V Mode: Flashing between 1Hz – 20Hz, equivalent to normalised 0-10V input
		DMX/RDM Mode: DMX/RDM traffic is present
	Blue (1s on, 4s off)	DMX/RDM Mode: No DMX/RDM traffic is present, heartbeat indicator
PWM 1-4	Off	Circuit is unpowered
	Red (Solid, dimming)	Non-inverted PWM output, dimming proportional to output signal
	Green (Solid, dimming)	Inverted PWM output, dimming proportional to output signal



Set the DMX start address using the x 100, x 10 and x1 mode switches.

PWM Switch

Mode	Designation
0	250 Hz
1	500 Hz
2	1000 Hz
3	1500 Hz
4	2000 Hz
5	250 Hz inverted
6	500 Hz inverted
7	1000 Hz inverted
8	1500 Hz inverted
9	2000 Hz inverted

Mode Switch

	Mode	Designation
	0	DMX / RDM
	1	DMX / RDM with SIP
	2	-
	3	0-10 V dimming
	4	-
	5	0-10 V dimming (inverted)
	6	-
	7	TEST: 4-channel cycle
	8	TEST: All channels ON
	9	TEST: All channels OFF

Valid addresses are in the range 1-509.

x100 / x10 / x1 Switches

x 100 is used to set the hundreds column,

x 10 the tens and

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