

Smart Driver™ Power Supplies

Digital Smart Driver™ AC Power Supply

Digital Smart Driver™ power supplies are specifically engineered to illuminate LightTape®.

Whether it is one piece or ten, it is possible to do it all with one Smart Driver™. There are a variety of models to choose from offering a variety of useful features. A Light Tape® representative will advise which model to use based on the total illuminated area, zones, and location.

FEATURES

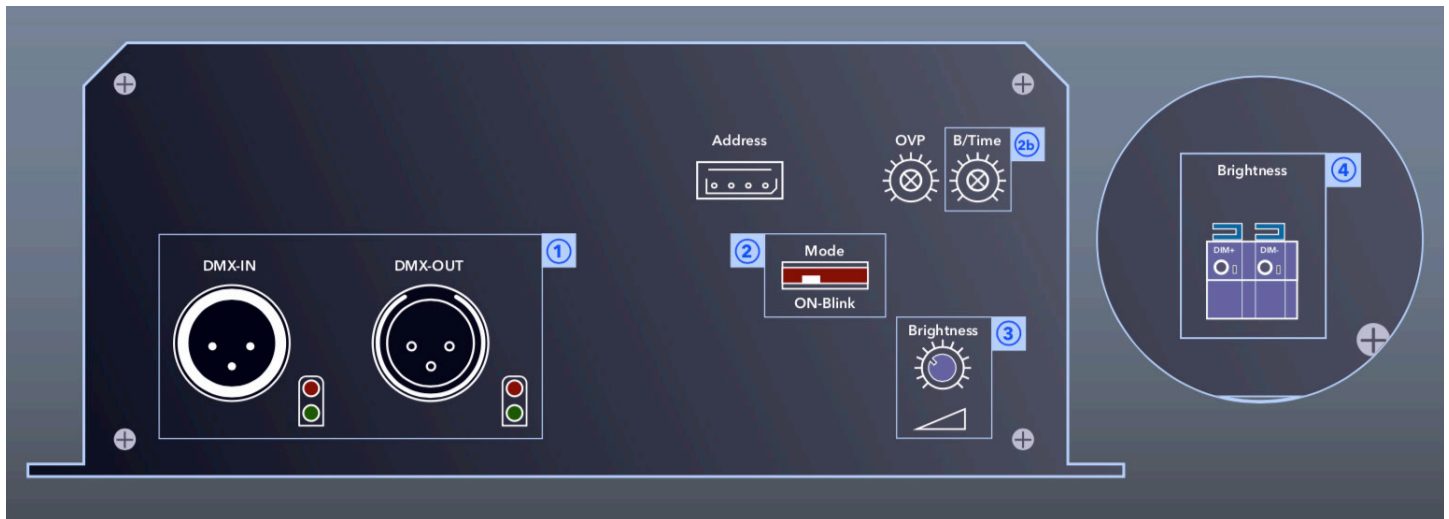
- Quiet
- Stylish compact design
- Rated Input Voltage 110 / 220 VAC
- Protection Class 1
- IP Degree 2x
- Worldwide voltage capacity
- Blink and Dimmer Switch
- Visual LED system status indicator
- Lightweight
- Short circuit and overload protection
- Convection Air Cooled
- CE, UL, CSA and AS/NZS compliant
- 0-10 dimming
- DMX 512 compatible



AC POWER SUPPLY RANGES AND OUTPUT

Model	Light Tape® Range		Input		Output
	Imperial	Metric	Amps	Watts	Max. Current, A
SD-8000	4000 - 8000 in ²	25,806 - 51,612 cm ²	3.50	420	3.8
DSD 200 0-10 DIMMING	1-200 in ²	6.5 - 1,290 cm ²	0.5 max	12	0.022
DSD 4000 DMX	200-4000 in ²	1,290 - 25,806 cm ²	1.7	204	2
DSD 2000 DMX	1000-2000 in ²	6,451 - 12,903 cm ²	2.8 max	68	0.91
DSD 1000 DMX	400-1000 in ²	2,580 cm ² - 6,451 cm ²	0.9	97	0.32
DSD 200 DMX	1-200 in ²	6.5 - 1,290 cm ²	0.5 max	12	0.022
DSD 2000	1000-2000 in ²	6,451 - 12,903 cm ²	2.8 max	68	0.91
DSD 1000	400-1000 in ²	2,580 cm ² - 6,451 cm ²	0.9	97	0.32
DSD 400	200-400 in ²	1,290 - 2,580 cm ²	0.7 max	17	0.11
DSD 200	1-200 in ²	6.5 - 1,290 cm ²	0.5 max	12	0.022

AC Power Supply Specifications



FEATURES

- DMX MODE** - 512 Supplies are fully DMX controllable, allowing for integration into complicated stage and light shows.
- BLINK MODE** - Allows for on/off pulse control with fine tuning knob.
- BRIGHTNESS CONTROL** - luminosity adjustment to appropriately match installation environment.
- O-10 DIMMING** - Optional function to remotely control Light Tape® brightness using standard 0-10v dimmers. Compatible with Lutron Dimmers.

Model	DMX	Blink Mode	Brightness control	0-10 Dimming
SD-8000		X	X	
DSD 200 0-10 DIMMING			X	X
DSD 4000 DMX	X	X	X	X
DSD 2000 DMX	X			X
DSD 1000 DMX	X			X
DSD 200 DMX	X			X
DSD 2000			X	
DSD 1000			X	X
DSD 400			X	
DSD 200			X	

AC POWER SUPPLY DIMENSIONS

Model	Length		Width		Height		Weight	
	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric
SD-8000	9.875 in	250 mm	4.75 in	120 mm	2.25 in	57 mm	4.15 lb	2.2kg
DSD 200 0-10 DIMMING	6 in	155 mm	2.625 in	67.5 mm	1.5 in	40 mm	0.8 lb	363 g
DSD 4000 DMX	8.75 in	220 mm	7.25 in	185 mm	2.75 in	70 mm	4.85 lb	2.22 kg
DSD 1000 DMX	7.75 in	195 mm	3.375 in	85 mm	2 in	50 mm	3.9 lb	1.77 kg
DSD 2000 DMX	8.375 in	225 mm	3.375 in	85 mm	2 in	50 mm	4.3 lb	1.95 kg
DSD 200 DMX	6 in	155 mm	2.625 in	67.5 mm	1.5 in	40 mm	0.85 lb	386 g
DSD 2000	8.375 in	225 mm	3.375 in	85 mm	2 in	50 mm	3.65 lb	1.66 kg
DSD 1000	7.75 in	195 mm	3.375 in	85 mm	2 in	50 mm	2.7 lb	1.22 kg
DSD 400	6.625 in	165 mm	2.625 in	67.5 mm	1.5 in	40 mm	1.05 lb	476 g
DSD 200	4.438 in	113 mm	2.75 in	70 mm	1.625 in	41 mm	0.7 lb	318 g

Smart Driver™ Safety & Handling

It is important that you operate Light Tape® and Smart Driver™ Power Supplies within their parameters. Changes to parameters that result in over-current will damage the Light Tape® lamp and power supplies.

Safety:

- Always consult local electrical codes for wiring regulations and installation requirements.
- Before use, ensure Smart Driver is adjusted to the correct input voltage (120/240 VAC) if the unit is equipped with a voltage selector switch.
- Always disconnect power before servicing.
- Do not operate Smart Driver™ outdoors unless in a suitably rated enclosure. Ensure installation in a dry environment.
- Always treat Smart Driver™ with care and respect as one would with any device where electrical current is present.

Handling:

- Turn off power to the Smart Driver™ using the power switch located on the input side of the unit. Allow five (5) minutes for capacitors to drain to the 120/240 VAC branch circuit grounding system before disconnecting supply to the unit.
- When cleaning Smart Driver™, do not use water or chemical cleaners.
- Smart Drivers™ should be mounted vertically using mounting holes to allow for natural convection air flow and maximum cooling. If applicable mount units with cooling fans facing upwards.
- Always store electronics in dust free environments to ensure proper performance.

General Installation Guidelines:

- Follow all installation guidelines from Electro-LuminX. Please visit our website www.lighttape.com for additional information.
- Please read all instructions prior to installation. Contact your regions tech support with any questions.
- When unpacking, please review all contents on the packing list and immediately notify us of any missing or damaged items.
- Do not mount Smart Driver™ directly to resonant surfaces such as metal, as this may produce amplified harmonics.
- Ensure to protect Smart Driver against severe shock or vibration with the use of vibration dampers where required.
- Light Tape® is non-polar, each hemisphere requires its own lead from the power supply.

- The Smart Driver™ to be selected based on total load. One Smart Driver™ can light multiple Light Tape® pieces, connected in Parallel. We do not recommend connecting Light Tape® Lamps in series or daisy chain. Do not under load or over load the Smart Driver™ as excessive current may damage electrical connections, lamps and power supply.
- Do not power up the Smart Driver™ without having the correct load applied.
- The external dimmer switch on Smart Driver™ controls the output voltage and frequency.
- Ensure the brightness is set to the lowest position prior to powering up lamp/s.
- Use a voltage meter to determine volts / hertz from Smart Driver™ once Light Tape® has been connected.
- Set Smart Driver™ dimmer switch as per factory recommended settings:
 - Low : 200 volts
 - Medium : 250 volts* (Recommended set point)
 - High : 300 volts.

(For permanent, backlighting installations, the Smart Driver™ output should not exceed 270V AC output. This will help maximise the lifetime of the lamp.)

- We DO NOT recommend exceeding 300 volts. Contact us if the Smart Driver™ is operating outside of range.
- Smart Driver™ power supplies are equipped with overload and short circuit protection. If trip occurs during operation, please inspect Light Tape® for damage, and operating voltage is within correct range.
- Red LED indicates the following :
 - a. Short Circuit Protection : Check wiring if light is on.
 - b. Overload Protection: Verify that lamp area is acceptable, or for possible damage to lamp.
- To reset Smart Driver™, switch off the main power toggle switch and wait 15 seconds, until LED indicator light subsides. Adjust the dimmer switch to a lower brightness setting prior to switching Smart Driver™ back on.
- When 0-10 Dimming, it is recommended that the input power be controlled with an external relay so that the Smart Driver™ can be switched off when not in use.

DC Power Supplies



FEATURES

- Mountable/portable
- Compact in size
- Temperature Range: -22°F to 185°F (-30°C to 85° C)
- Accepts variety of input voltages
- High Efficiency
- Reverse Polarity protection
- No load protection
- Short circuiting protection
- Self compensating
- Quiet
- Small form factor
- CE compliant
- 6V, 12V, 24V inputs available

DC POWER SUPPLY RANGES AND OUTPUT

Model	Light Tape® Range		Input			Output
	Imperial	Metric	V	Amps	Watts	Max. Current
BUS-DSD-4000	200-4000 in ²	1,290.32 - 25,806.4 cm ²	24v DC	4.5	108	
DC 2000	1200 - 2000 in ²	7,741.92 - 12,903.2 cm ²	12v DC	6	72	8752 mA
DC 1500	800 - 1200 in ²	5,161.28 - 7,741.92 cm ²	12v DC	3.6	45	6564 mA
DC 750	500 - 800 in ²	3,225.8 - 5,161.28 cm ²	12v DC	2.5	30	3282 mA
DC 500	300 - 500 in ²	1,935.48 - 3,225.8 cm ²	12v DC	1.5	18	2188 mA
DC 300	150 - 300 in ²	967.74 - 1,935.48 cm ²	12v DC	0.9	10.8	1312 mA
DC 150	75 - 150 in ²	483.87 - 967.74 cm ²	12v DC	0.5	6	656 mA
DC 100	50 - 100 in ²	322.58 - 645.16 cm ²	12v DC	0.4	5	438 mA
DC 50	25 - 50 in ²	161.29 - 322.58 cm ²	12v DC	0.16	2	219 mA
DC 20	10 - 25 in ²	64.52 - 161.29 cm ²	12v DC	0.08	1	88 mA
DC 9V	<30 in ²	<193.55 cm ²	9v DC	0.2	2	mA 144

DC POWER SUPPLY DIMENSIONS

Model	Length		Width		Height		Weight	
	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric
BUS-DSD-4000	8.75 in	222 mm	6.25 in	158 mm	3 in	76 mm	4.15 lb	1.88 kg
DC 2000	6.5 in	165 mm	4.25 in	108 mm	2 in	50 mm	2.65 lb	1.2 kg
DC 1500	6 in	152 mm	3.875 in	98.4 mm	1.5 in	38 mm	1.85 lb	839 g
DC 750	4 in	102mm	3.875 in	98.4 mm	1.5 in	38 mm	0.95 lb	431 g
DC 500	4 in	102mm	3.125 in	80 mm	1.5 in	38 mm	0.7 lb	318 g
DC 300	4 in	102mm	2.125 in	54 mm	1.5 in	38 mm	0.9 lb	408 g
DC 150	4 in	102mm	2 in	50 mm	1.5 in	38 mm	0.6 lb	272 g
DC 100	3 in	76 mm	2 in	50 mm	1.5 in	38 mm	0.45 lb	204 g
DC 50	3 in	76 mm	1.6 in	40 mm	1 in	25 mm	0.2 lb	90.7 g
DC 20	1.75 in	44 mm	1 in	25 mm	0.8 in	20 mm	0.1 lb	45.4 g
DC 9V	2.3 in	58 mm	2.3 in	58 mm	1 in	25 mm	0.15 lb	68 g

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