SERPENS GX Series

Features
• Rugged, surface-mounted LED striplight rated for wet location
• Ideal for outdoor coves, wall washing, wall grazing and other indirect
• applications
• Use also for signage, back-lighting, pathways, patios, landscape furniture and food-preparation areas

Fixture Construction
• Extruded aluminum housing provides long-term durability of fixture
• Anodized black finish protects against corrosion
• Frosted acrylic lens is UV stabilized to prevent discoloring and deterioration
• LED lightstrip inside is fully sealed, protecting lightsource against water
• Available in nominal 1ft and 4ft lengths (Consult factory for custom fixture lengths)
• Fixtures ship fully assembled, with mounting brackets, for quick and easy installation
• Outdoor-rated connectors are included, simplifying weatherproof connection between fixtures
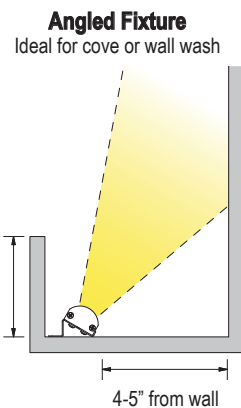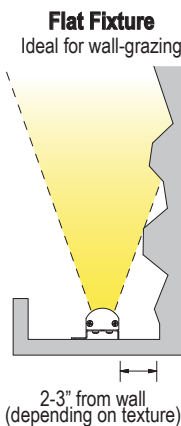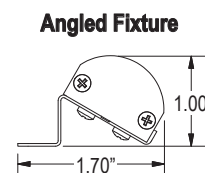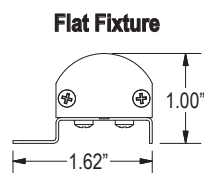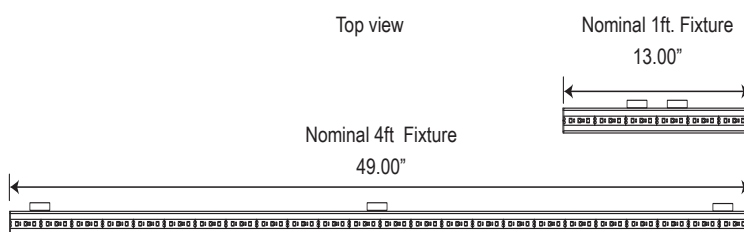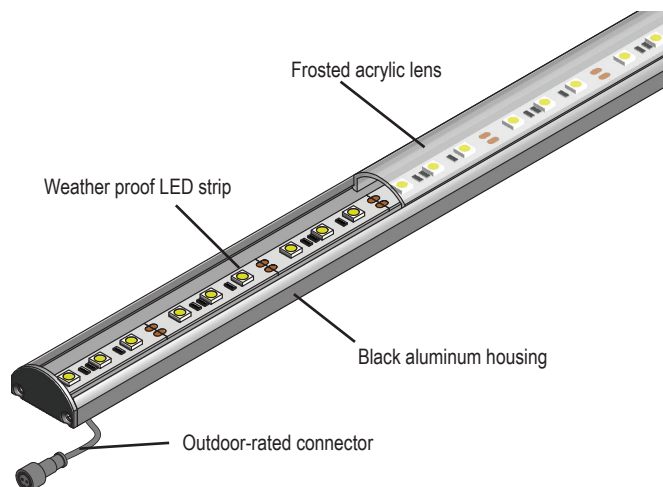
Optical Characteristics
• Uses 18 high-output LEDs per foot
• Available in 2700K, 3000K, 3500K and 4000K
• Produces up to 425 lumens
• Tight color-binning of LEDs ensures uniformity of color
• Emits no UV and no IR
• 90CRI available. (Consult factory)

Electrical Specifications
• Consumes only 4.0 watts per foot
• Runs on 24V DC (Use with available Power Supply)
• Maximum run length is 21 feet per feed point
• Operating temperature is -20° to 60° Celsius
• UL Listed for Wet Location
• IP68 rated (Waterproof / Dustproof)

Heat Management and Rated Life
• LEDs operate on low current
• Low current generates minimal heat, preserving LED life without need for elaborate heat sink
• Rated life is 50,000 hours, with 70% lumen maintenance, when used in normal environmental conditions
• Long life results in low maintenance and replacement costs
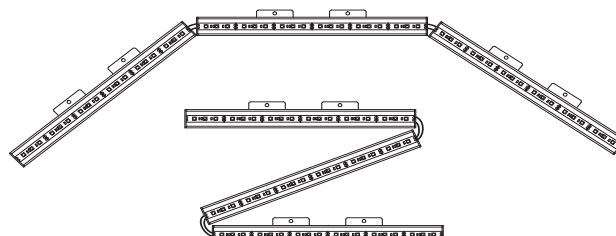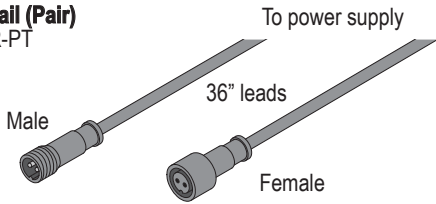• Produces no radiant heat; optimal for heat-sensitive applications

Frosted acrylic lens

Weather proof LED strip

Black aluminum housing

Outdoor-rated connector

Top view

Nominal 1ft. Fixture
13.00"

Nominal 4ft Fixture
49.00"

Flat Fixture
1.00"
1.62"

Angled Fixture
1.00"
1.70"

Flat Fixture
Ideal for wall-grazing
2-3" from wall
(depending on texture)

Angled Fixture
Ideal for cove or wall wash
Minimum 3"
4-5" from wall

How to Specify SERPENS GX Series

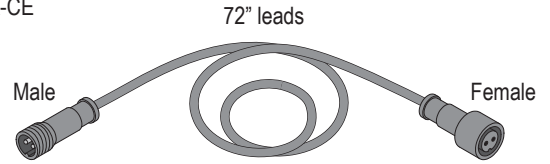| SER - GX -		-		-	
	LED Color		**Fixture Type**		**Fixture length**
	W27	2700K	F	Flat	13	13in.
	W30	3000K	A	Angled	49	49in.
	W35	3500K				
Example	W40	4000K				
SER - GX -	**W30**		**F**		**49**	

Flexible Connectors
Allow modules to be laid out along virtually any radius or corner

Accessories

Pigtail (Pair)
SER-PT

To power supply
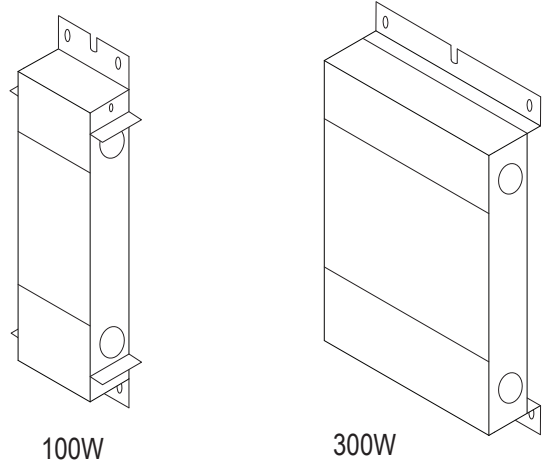
36" leads

Male

Female

Order one pair per run. Each pair includes one male pigtail and one female pigtail. Use one, depending on which end of fixture is being fed.

Connector Extension
SER-CE

72" leads

Male

Female

Use to connect fixtures placed up to 72" apart, or to extend pigtail.

Standard Dimmable Power Supplies Serpens GX Series:

- Input voltage: 120VAC or 277VAC
- Input frequency: 50 ~ 60 Hertz
- Output voltage: 24VDC
- Output current: 4 Amps per output circuit
- Maximum output power: 100W or 300W
- Overload protection: Auto Reset
- Enclosure: Damp location enclosure with conduit knockouts
- Mounting: Wall mount
- Operating environment: -20° to 50° Celsius
- Certification: UL Class 2 Power Supply (Damp Location)

Maximum Load
• Maximum 21 ft per 4A output circuit
• Do not connect more than 21 ft per 4A circuit

100W

300W

Dimming
• Compatible with most standard Electronic Low Voltage Dimmers
• Wire dimmer to primary side of power supply
• Requires minimum 5 ft per 4A output for effective dimming
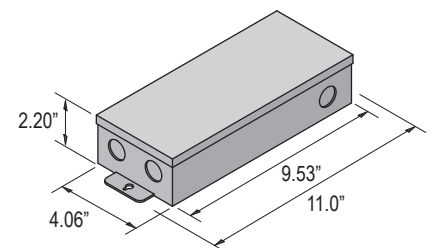• Recommended dimmers: Lutron Diva Series DVSCELV-300P-SW, DVELV-300P-WH (120VAC, 300W, single pole)

Must be mounted in an accessible location with sufficient ventilation and must not be submerged.

Ordering codes

Item Number	Description	H x W x D (in)	Weight
SER-GX-120-100	120VAC TO 24VDC, 100W, 4A, Feeds one 21ft runs	13.875" x 2.625" x 1.3125"	2lbs
SER-GX-120-300	120VAC TO 24VDC, 300W, 3 x 4A, Feeds three 21ft runs	13.875" x 6.125" x 1.875"	5lbs
SER-GX-277-100	277VAC TO 24VDC, 100W, 4A, Feeds one 21ft run	13.875" x 2.625" x 1.3125"	2lbs
SER-GX-277-300	277VAC TO 24VDC, 300W, 3 x 4A, Feeds three 21ft runs	13.875" x 6.125" x 1.875"	5lbs

Power Supply For Dimming Applications 0-10V:

- Input: 120-277VAC, 50/60Hz
- Output: 24VDC
- Maximum output current: 4.0A
- Maximum output power: 100W (Feeds one 20ft run)
- Overload Protection, Short Circuit, Thermal Protection
- Operating temperature: -40° to 60° Celsius
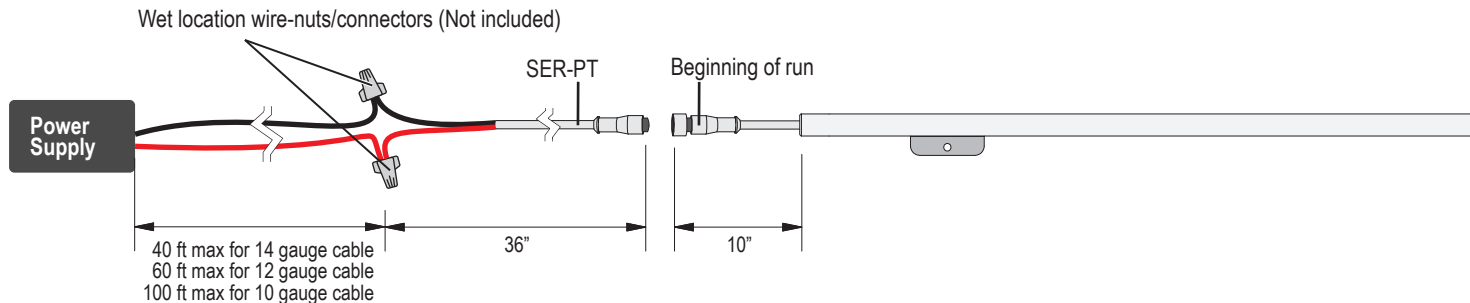- Certification: UL Listed for Outdoor Installation

2.20"

9.53"

11.0"

4.06"

Ordering codes

Item Number	Description	Weight
DD-010-24	100W, 120-277VAC to 24VDC for 0-10V dimming*	3lbs

* Recommended dimmer: Lutron Nova Series Part No. NTSTV-DV, Ballast or LED Driver Control

Must be mounted in an accessible location with sufficient ventilation and must not be submerged.
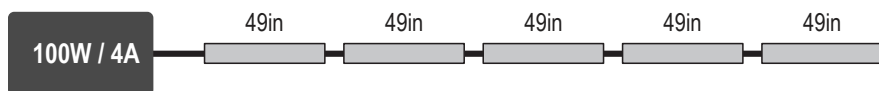
How to Feed SERPENS GX Series (Maximum 21ft per run)

If the location of the power supply is more than 36" from the start of the lightstrip, connect additional wire using wet location connectors. (Not included)
See chart below to determine what cable gauge wire is required depending on how far the power supply is located from the start of the lightstrip.
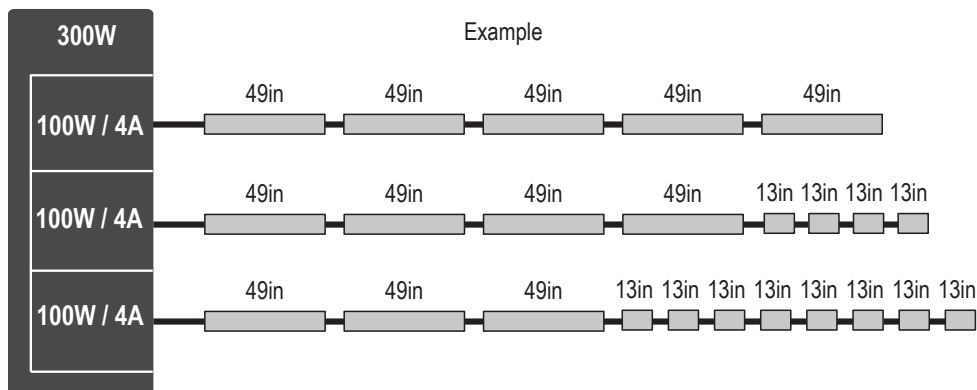
Wet location wire-nuts/connectors (Not included)

SER-PT

Beginning of run

Power Supply

36"

10"

40 ft max for 14 gauge cable
60 ft max for 12 gauge cable
100 ft max for 10 gauge cable

100W Power Supply
Feeds up to 21ft

Example

100W / 4A

49in   49in   49in   49in   49in

300W Power Supply
Feeds up to 63ft total (21ft per 100W output)

300W

Example

100W / 4A

49in   49in   49in   49in   49in

100W / 4A

49in   49in   49in   49in   13in 13in 13in 13in

100W / 4A

49in   49in   49in   13in 13in 13in 13in 13in 13in 13in 13in

Multiple combinations of 49in and 13in fixtures may be connected together, so long as total length of run does not exceed 21ft.