CPDLIGHTING

Backlighting Specialists

(IP22)   3 YEARS WARRANTY   (UL)

CPD LITE TILE

1/4"(6mm) light guide panel

Our wholesale Custom LED Panels are customized into any shape or size imaginable up to 4′ x 8′ . We manufacture our panels custom to size, and our wholesale rates have kept us #1 in the industry for 20+ years. CPD light panels are much different than the rest. The surface brightness of our light panels is extremely powerful and our lifespan is approximately 75,000 hours. Our 6mm thin custom LED panels are used for back lighting and ambiance lighting around the world. We use the highest quality LED's and components and our panels have been used in every application around the world. Flat lighting fixtures are produced by edge lighting 6mm thin acrylic panels for a thin and uniform light source. Edge lighting is mainly used by architects who understand how this lighting can enhance their designs. This modern way of back lighting has been utilized by top notch designers around the globe as well as homeowners who simply want to add appeal to their project. Contact us today to discuss your ideas and see how we can illuminate your showcases.
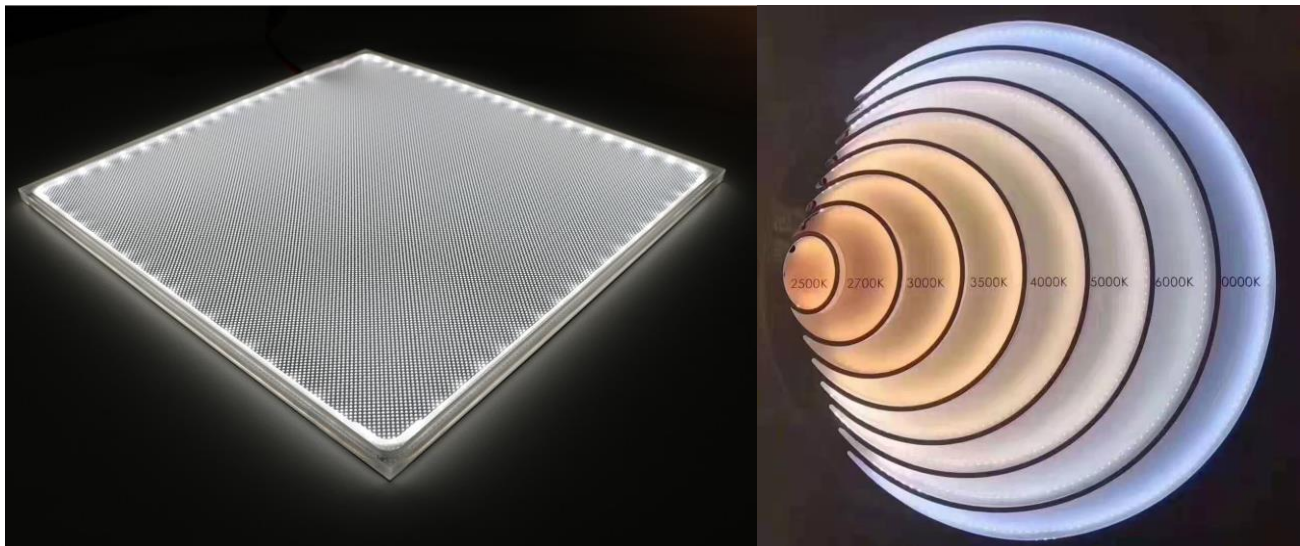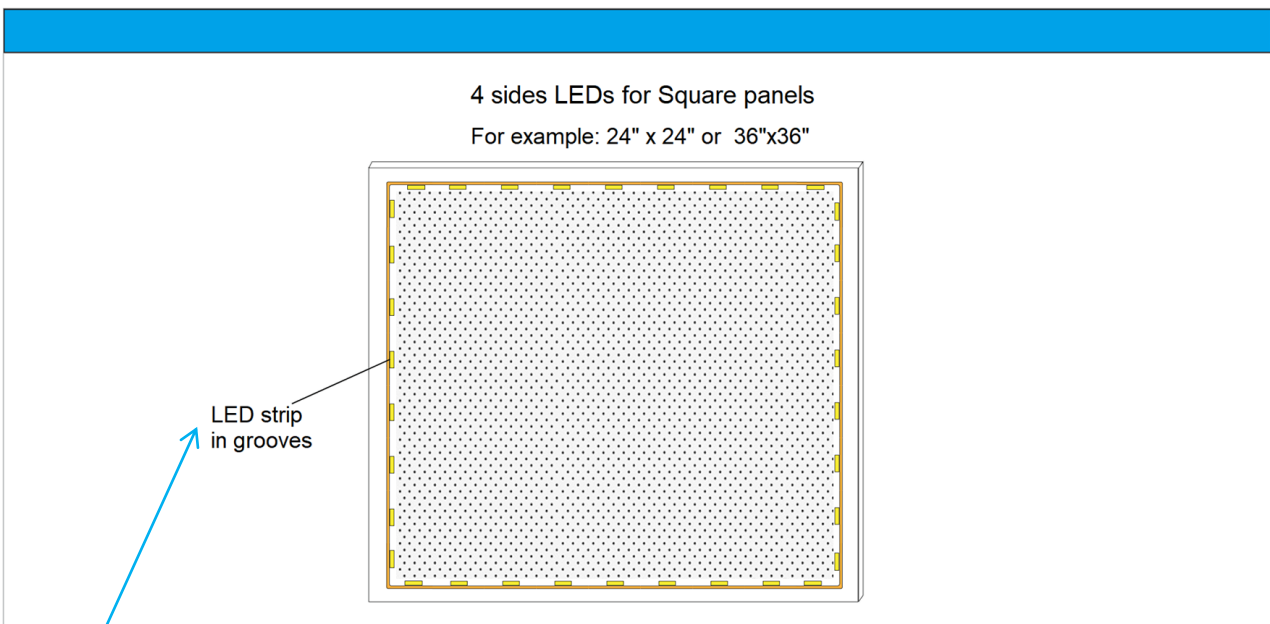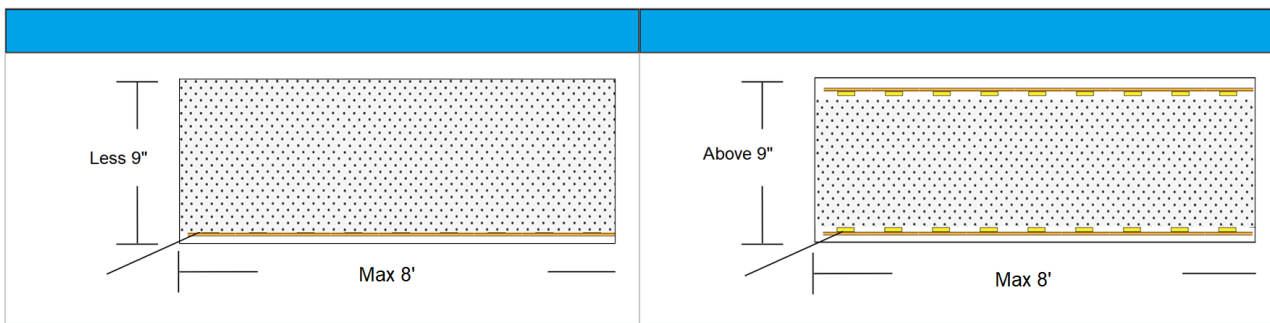

ADVANTAGES:

- Available in custom sizes & shapes

- Super slim 1/4" 6mm laser Cut dotting panel

- Pull-resistant design wire

- Long LED lifespan (50 000-75000 hours)

- Energy saving and maintenance free (70% energy savings over traditional lighting)

- Can be used in "frameless" designs

- Kelvins options (3000K/4000K/5000K/6500K)

- High brightness, Even and stable light quality

- Advanced 3 years warranty

(215) 651.2737   info @cpdlighting.com   www.cpdlighting.com

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LED lighting solution

Raw CPD Lite Tile 1/4" (6mm) light panel cut view&top views

Flexible Strip   LED Chip   Optical acrylic panel

1/4" (6mm)

Laser cut dotting

Reflective back film

Less 9"

Max 8'

Above 9"

Max 8'

4 sides LEDs for Square panels

For example: 24" x 24" or 36"x36"

LED strip in grooves
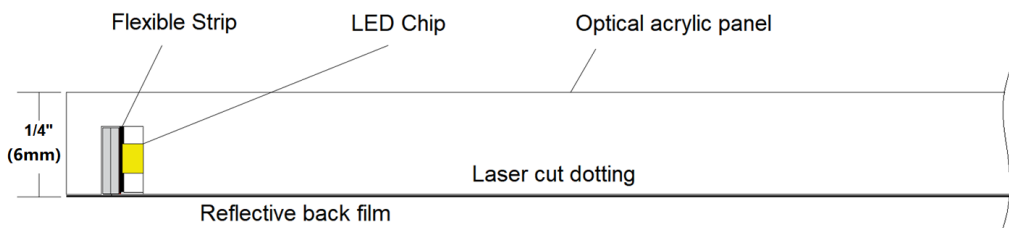
Custom LED strips brightness design

    IP22, PCB board width 5/32", 3W per 1ft.

    IP65, PCB board width 1/4", 3.3W per 1ft.

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Specifications

ELECTRICAL Specifications	
Input Voltage	12 volt / 24 volt power supply depending on your requirement.
Wattage	1 0.8W per 40 inches LED strip
Color Temperature	3000K,4000K,5000K,6500K, Tunable 2700-6500K
Wire size	20AWG (Pull-resistant design wire)
Shape and size	Can be customized any shape, largest size is 4'x8'
Thickness	LGP 1/4" (6mm), 5/16"(8mm)
Weight	**6mm** 1.46lbs / sq ft (7.15 kg / sq m) • **8mm** 1.95 lbs / sq ft (9.54 kg / sq m)
Wire coming from panel	3" DC wire + 10' extension cord
Material Front Side of Panel	Clear pure virgin acrylic panel or with diffuser (optional)
Material Back Side of Panel	High quality reflecting sheet
Catalog Designation	Non- All custom shapes, no stock items *'CPD LITE TILE'*
Dimming Capacities	12V/24V-72A (Plug and play dimmer) (optional)
Power Supply	UL Listed DC adaptor
Connection from panel to Power supply	Plug & Play. Male plug on power supply / Female plug on panel

Illuminating larger area (above 2 panels)

Diffuser or Graphics

1.5" (38mm) space between light panels and Diffuser or Graphics

CPD Lite Tile

CPD Lite Tile

Diffuser or Graphics

1.5"
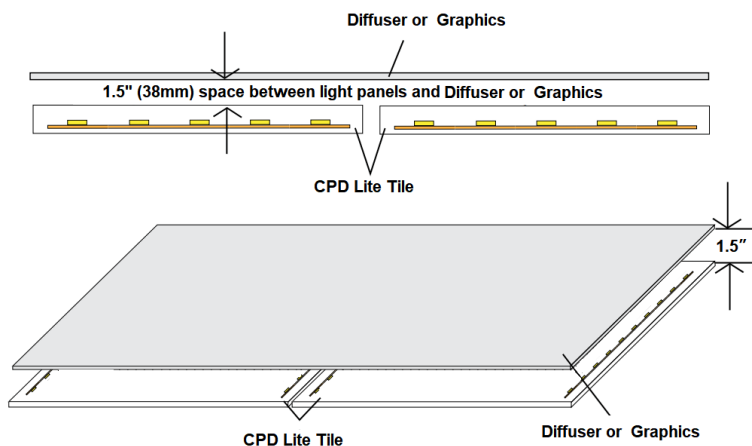
When placing panels side by side to create a larger illuminated area, you may see a bright line (LED illuminated edge) or dark line (non-illuminated edge) where they meet. These areas show differently depending on the overlay material being used. We recommend testing the material to be backlit in order to determine if additional diffusion or space is necessary.

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Panels Wiring

z

```
01      09      03
02              04


11              12       y


05              07
06      10      08
```
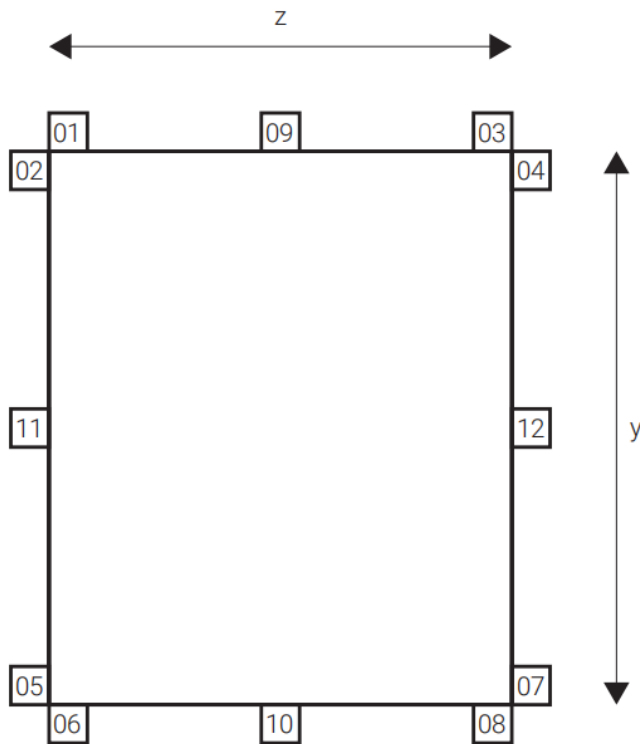
1, 3, 6, 8: Corner Exit short side

2, 4, 5, 7: Corner exit long side

9, 10: Side Exit short side

11, 12: Side exit long side

Chose wire exit(s) from above:

12V - Wattage <50W 1 wire; Wattage >50W 2 wires

24V - Wattage <75W 1 wire; Wattage >75W 2 wires

• *Please consult with CSR if panel wattage is >100W*
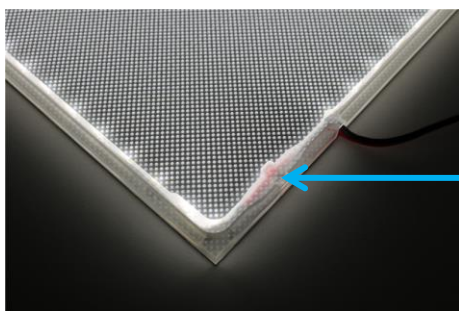
Pull-resistant design wire
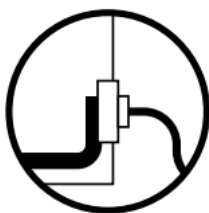
Power cord exits from edges
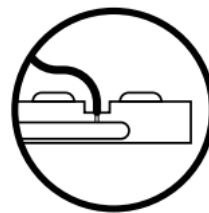
Power cord exits from the rear

side of the light panel

Light panel options

Option 1. Without/With diffuser

Raw CPD Lite Tile
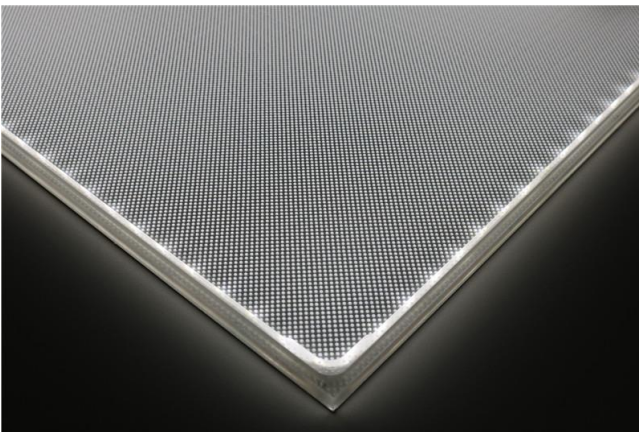
CPD Lite Tile with diffuser
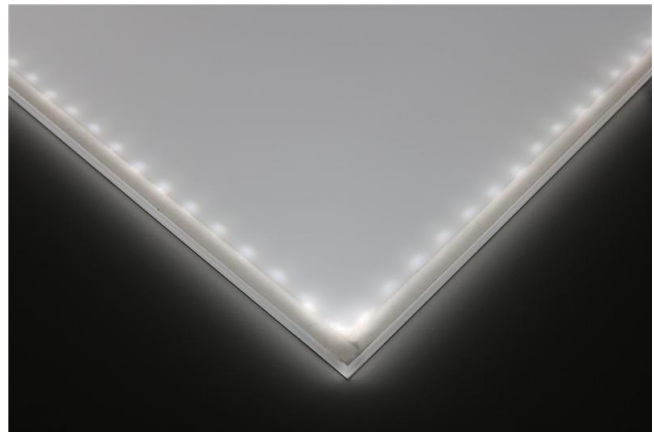
Option 2. Kelvin options

3000K   **4000K**   **5000K**   **6500K**

UL-12V-3000k   UL-12V-4000k   UL-12V-5000k   UL-12V-6500k
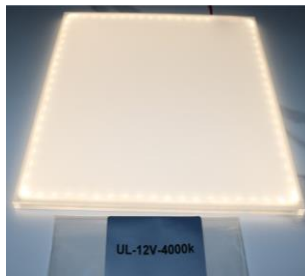
Tunable (2700-6500K)   **168pcs LEDs per 40", panel thickness 5/16"(8mm), with tunable controller**

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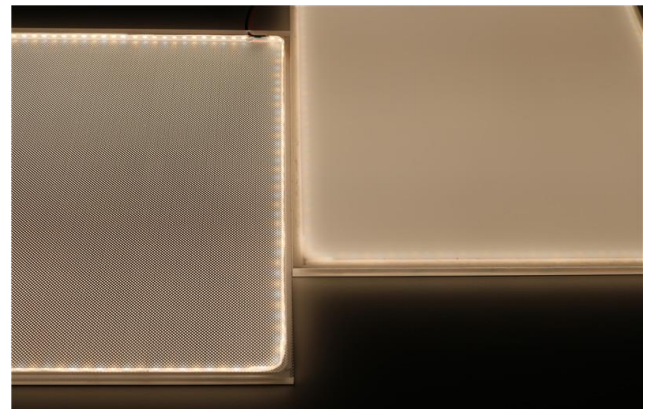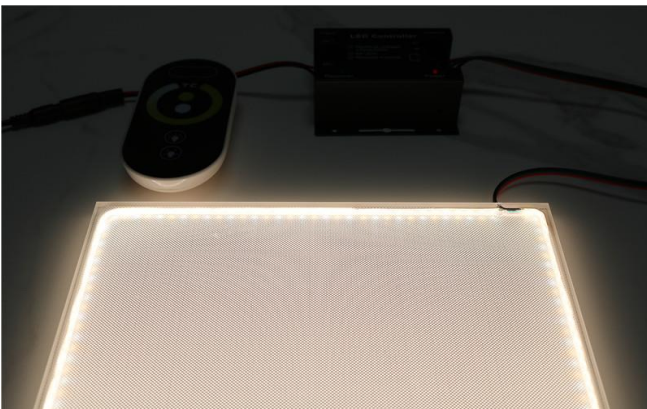
RGB   Panel thickness 2/5"(10mm) for indoor use, 1/2"(12mm) for outdoor use
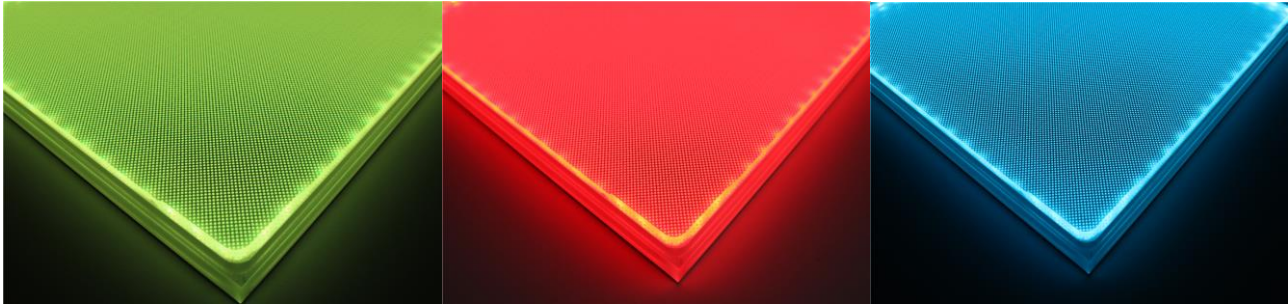
RGB panel should connect with controller and amplifiers *see RGB accessories list*

Option 3   IP22/IP65

Indoor panel   **Outdoor panel**

Option 4

Opaque tape / Diffuser tape

With Diffuser panel on LGP

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Accessories and options

CPD UL Listed Dimmable Power Supply- UL#E528159

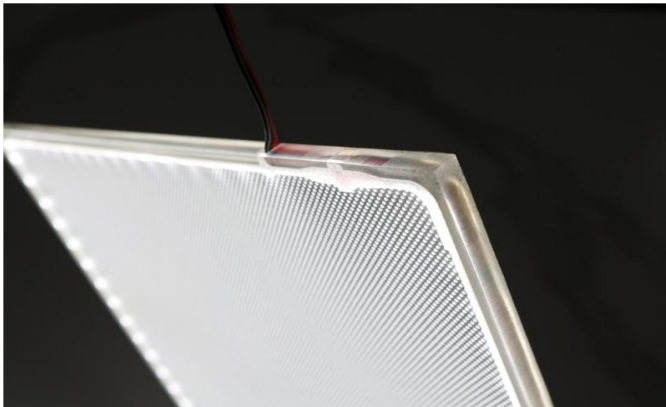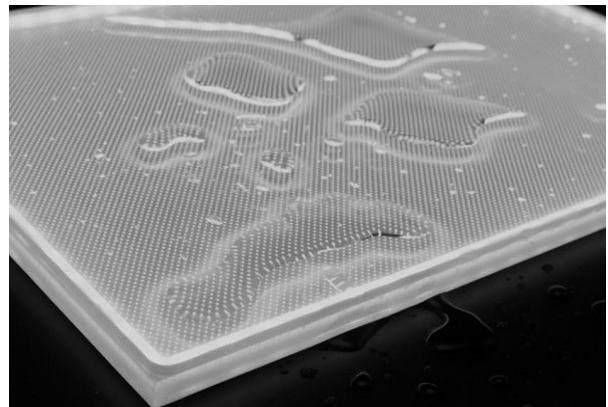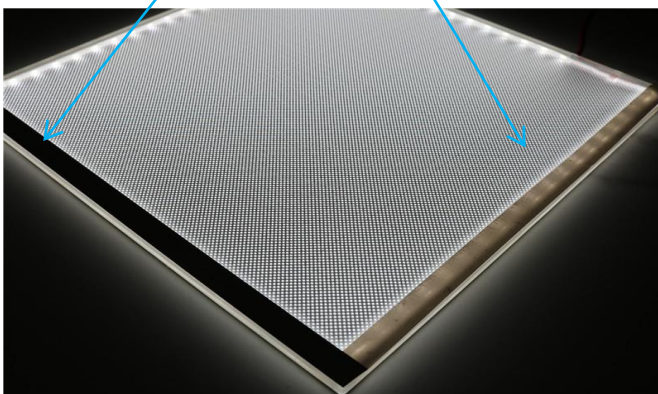| JBOX series:		
SMT-012-060VTHV2 **12VDC 60W Triac dimming**		Phase Cut Dimming Constant Voltage Class 2 LED Driver PN: CPD-012-060VTHV2 INPUT: 100-277Vac~0.9A max, 50/60Hz λ: 0.95 OUTPUT: 12 VDC=== 5.0A / 60W Class P Type HL Conforms UL1310 and UL8750 Conforms CAN/CSA-C22.2 NO.250.13 MAXIMUM OF 12 AWG THROUGH BRANCH CIRCUIT CONDUCTOR SUITABLE FOR 105°C PERMITTED IN BOX CAUTION & ATTENTION INPUT 100-277VAC OUTPUT 12VDC
SMT-012-100VTHV2 **12VDC 100W Triac dimming**		Phase Cut Dimming Constant Voltage LED Driver PN: CPD-012-100VTHV2 INPUT: 100-277Vac~1.5A, 50/60Hz λ: 0.95 OUTPUT: 12 VDC=== 8.33A / 100W Class P Type HL Conforms UL 8750 Conforms CAN/CSA-C22.2 NO.250.13 MAXIMUM OF 12 AWG THROUGH BRANCH CIRCUIT CONDUCTOR SUITABLE FOR 105°C PERMITTED IN BOX CAUTION & ATTENTION INPUT 100-277VAC OUTPUT 12VDC
SMT-012-150VTHV2 **12VDC 150W Triac dimming**		Phase Cut Dimming Constant Voltage LED Driver PN: CPD-012-120VTHV2 INPUT: 100-277Vac~1.7A, 50/60Hz λ: 0.95 OUTPUT: 12 VDC=== 10.0A / 120W Class P Type HL Conforms UL 8750 Conforms CAN/CSA-C22.2 NO.250.13 MAXIMUM OF 12 AWG THROUGH BRANCH CIRCUIT CONDUCTOR SUITABLE FOR 105°C PERMITTED IN BOX CAUTION & ATTENTION INPUT 100-277VAC OUTPUT 12VDC
SMT-012-200VTHV2 **12VDC 200W Triac dimming**		Phase Cut Dimming Constant Voltage LED Driver PN: CPD-012-200VTHV2 INPUT: 110-277Vac~2.3A max, 50/60Hz λ: 0.95 OUTPUT: 12 VDC=== 16.6A / 200W Class P Type HL Conforms UL 8750 Conforms CAN/CSA-C22.2 NO.250.13 MAXIMUM OF 12 AWG THROUGH BRANCH CIRCUIT CONDUCTOR SUITABLE FOR 105°C PERMITTED IN BOX CAUTION & ATTENTION INPUT 110-277VAC OUTPUT 12VDC
SMT-012-300VTHV2 **12VDC 300W Triac dimming**		Phase Cut Dimming Constant Voltage LED Driver PN: CPD-012-300VTHV2 INPUT: 110-277Vac~3.4A max, 50/60Hz λ: 0.95 OUTPUT: 12 VDC=== 25.0A / 300W Class P Type HL Conforms UL 8750 Conforms CAN/CSA-C22.2 NO.250.13 MAXIMUM OF 12 AWG THROUGH BRANCH CIRCUIT CONDUCTOR SUITABLE FOR 105°C PERMITTED IN BOX CAUTION & ATTENTION INPUT 110-277VAC OUTPUT 12VDC
Linear series:		
SMT-012-150VTSW **12VDC 150W Triac dimming**		Triac/Phase Cut Dimming Constant Voltage LED Driver PN: CPD-012-150VTSW INPUT: 100-277Vac, Max. 1.8A, 50/60Hz λ: 0.95 OUTPUT: 12 VDC=== 12.5A / 150W Class P Type HL Conforms UL 8750 Conforms CAN/CSA-C22.2 NO.250.13 Complies with FCC For Connections Use Wire Rated for at Least 90°C (194°F) CAUTION & ATTENTION
SMT-012-150VWSW **12VDC 150W Non dimming**		Waterproof Constant Voltage LED Driver PN: CPD-012-150VWSW INPUT: 100-277Vac, Max. 1.8A, 50/60Hz λ: 0.95 OUTPUT: 12 VDC=== 12.5A / 150W Class P Type HL Conforms UL 8750 Conforms CAN/CSA-C22.2 NO.250.13 Complies with FCC For Connections Use Wire Rated for at Least 90°C (194°F) CAUTION & ATTENTION
SMT-012-150VDSP **12VDC 150W 0-10V dimming**		0/1-10V 4 in 1 Dimming Constant Voltage LED Driver PN: SMT-012-150VDSP INPUT: 100-277Vac, Max. 1.8A, 47/63Hz λ: 0.95 OUTPUT: 12 VDC=== 12.5A / 150W Class P Type HL Conforms UL 8750 Conforms CAN/CSA-C22.2 NO.250.13 Complies with FCC 47 CFR Part 15,Subpart B For Connections Use Wire Rated for at Least 90°C (194°F) CAUTION & ATTENTION

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Applications

Bar top

Backlit Floor tile

Backlit graphics