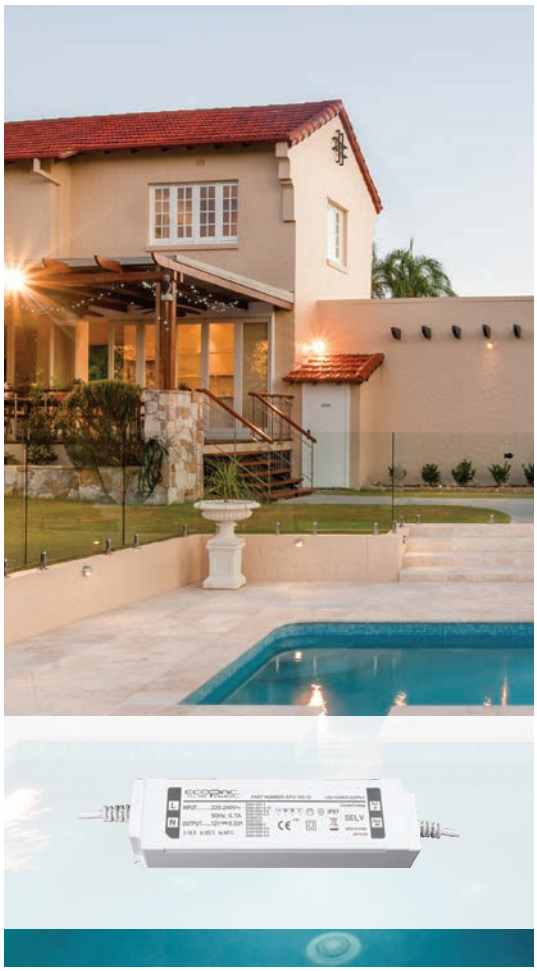


LED Power Supplies

Catalogue 2019

www.ecopacpower.co.uk
01844 204420

Welcome

to

Ecopac Power

Lighting Your World

Contents

Our promise

To supply the highest quality LED Power Supplies with excellent before and after customer service.

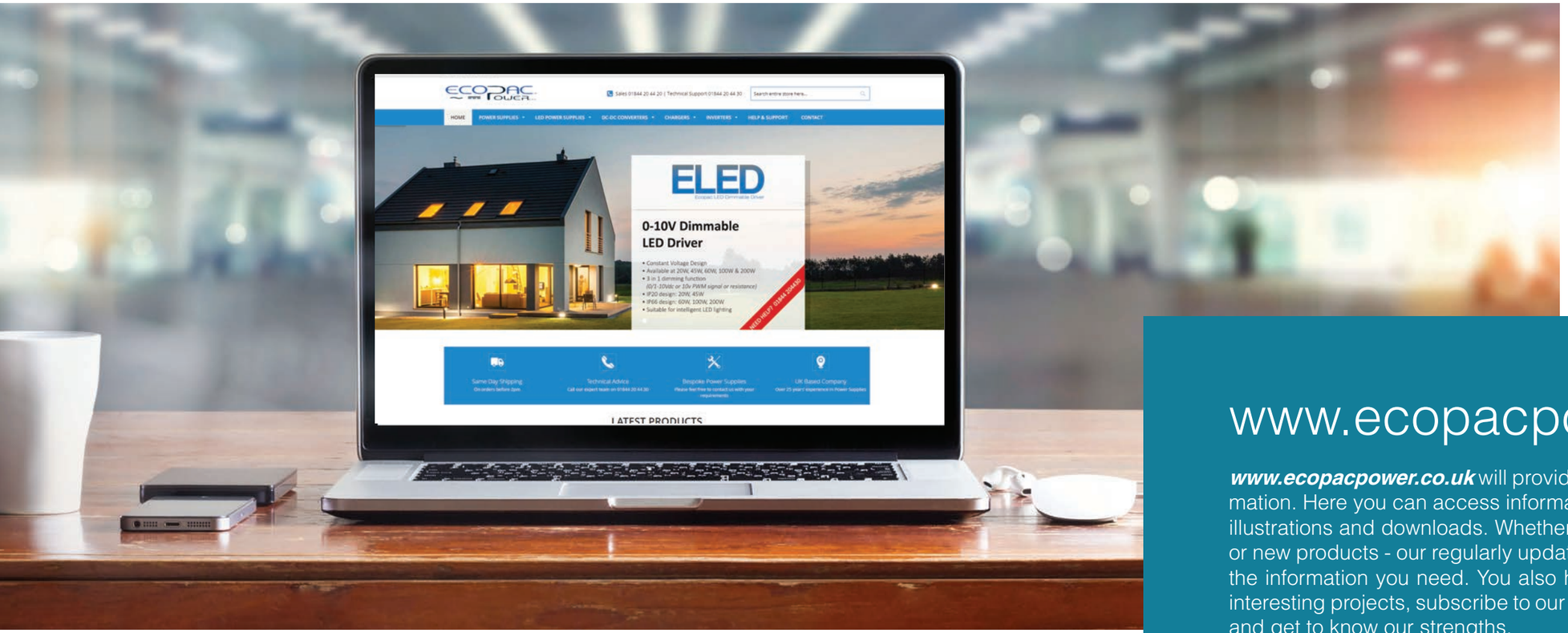
History

Founded in 1995, Ecopac (UK) Power Ltd has had many years' trading experience, with outstanding performance in the LED Driver market place, growing year on year. We launched our own range of LED drivers to fill gaps within the UK market and to compliment the broad Mean Well portfolio already offered.

Ecopac Power offers the UK's largest range of LED power supplies, with products starting at 4 Watts up to 600 Watts, with various dimensions, IP rating and dimming capabilities (DALI, 1-10v, Triac etc.)

Ecopac Power have over £2M worth of stock here in the UK available for next day delivery. We provide an unrivalled technical service on LED power supplies to all of our customers, this ensures that all our customers are up to date on the ever changing LED industry.

Our product lines



www.ecopacpower.co.uk

www.ecopacpower.co.uk will provide you with a further source of information. Here you can access information on all products: product data, illustrations and downloads. Whether you are looking for technical data or new products - our regularly updated website will provide you with all the information you need. You also have the opportunity to view some interesting projects, subscribe to our Newsletter, widen your knowledge, and get to know our strengths.

How to order

To order products please **call us on 01844 204 420**. We currently do not sell products directly online as we are a family run business which always likes to understand the customers requirements and throughout our 20 plus years experience, we have found this the most effective and satisfying way to build customer relationships and give the best possible service.

Triac Dimmable Series

- Constant Voltage
- Constant Current

Triac Dimmable Series

Ecopac Triac Dimmable LED Power Supply is a perfect solution for:

- Dimming LED lighting
- Retro Fit

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ELED-15-T

CV Version

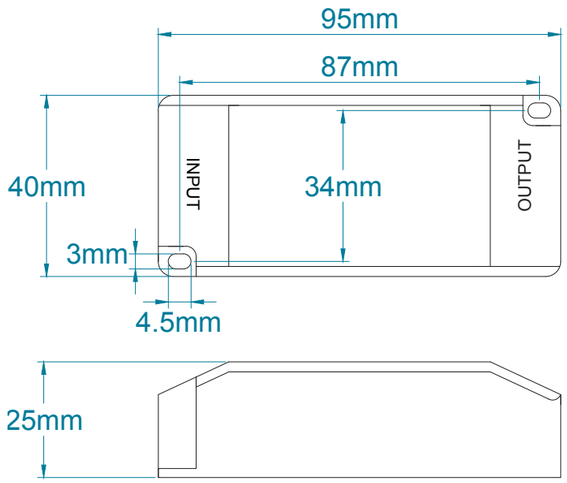
Technical Data

- Constant voltage/ PWM Output
- Leading edge dimmable
- AC input: 180-240VAC
- Efficiency up to 80%
- Protections: Short circuit/Over loading/ Over current
- Full protection plastic housing easy installation
- IP20 design for indoor installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety standards: EN61347-1

CE SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC180-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-15-12T	12V	0-15W	1.25A	>0.65	-40°C	70°C	95x40x25mm
ELED-15-24T	24V	0-15W	0.62A	>0.65	-40°C	70°C	95x40x25mm

ELED-25-T

CV Version

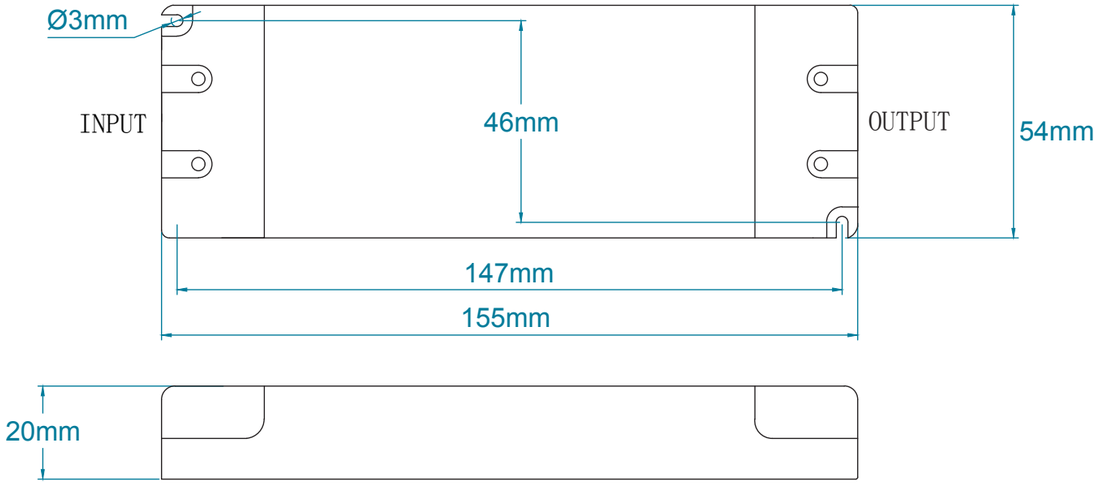
Technical Data

- Constant voltage/ PWM Output
- Leading edge dimmable
- AC input: 180-240VAC
- Efficiency up to 84%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection plastic housing easy installation
- IP20 design for indoor installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety standards: EN61347-1

CE SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC180-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-25-12T	12V	0-25W	2.08A	>0.65	-40°C	70°C	155x54x20mm
ELED-25-24T	24V	0-25W	1.04A	>0.65	-40°C	70°C	155x54x20mm

ELED-50-T

CV Version

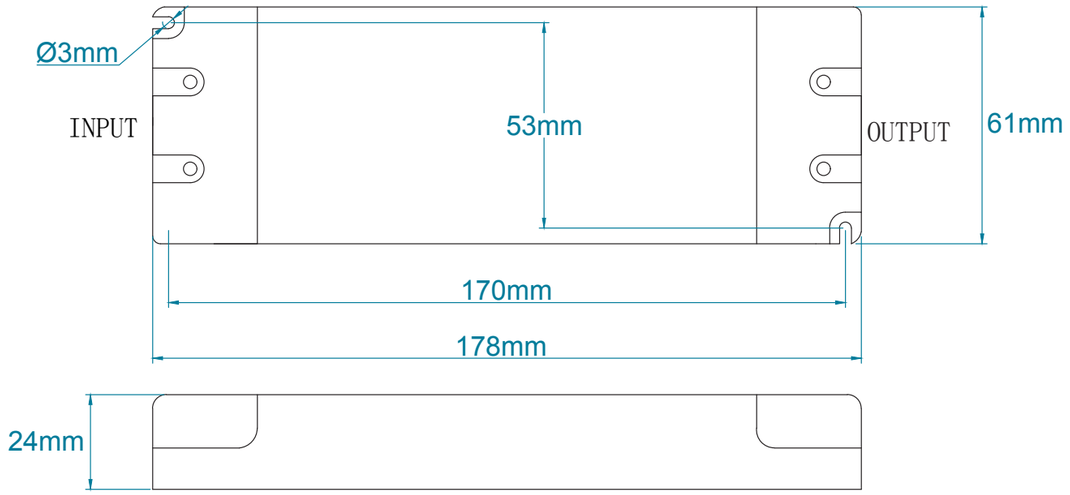
Technical Data

- Constant voltage/ PWM Output
- Leading edge dimmable
- AC input: 180-240VAC
- Efficiency up to 84%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection plastic housing easy installation
- IP20 design for indoor installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety standards: EN61347-1

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC180-240V 50/60 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-50-12T	12V	0-50W	4.17A	>0.65	-40°C	70°C	178x61x24mm
ELED-50-24T	24V	0-50W	2.08A	>0.65	-40°C	70°C	178x61x24mm

ELED-100-T

CV Version

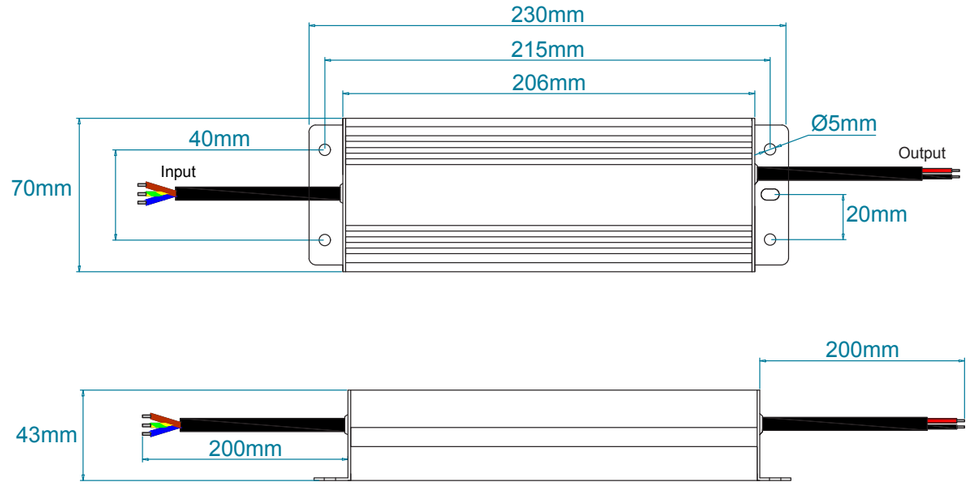
Technical Data

- Constant voltage/ PWM Output
- Leading edge dimmable
- AC input: 180-240VAC
- Efficiency up to 83%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection aluminium housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety standards: EN61347-1

SELV IP66

Dimension in mm



Characteristics

Rated input voltage: AC180-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-100-12T	12V	0-100W	8.3A	>0.65	-40°C	70°C	230x70x43mm
ELED-100-24T	24V	0-100W	4.17A	>0.65	-40°C	70°C	230x70x43mm

ELED-150-T

CV Version

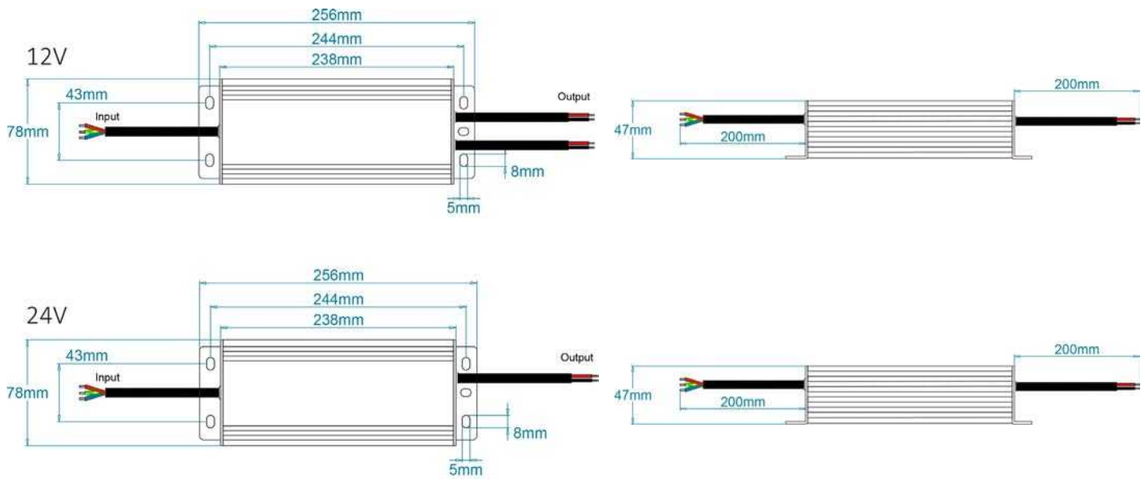
Technical Data

- Constant voltage/ PWM Output
- Leading edge dimmable
- AC input: 180-240VAC
- Efficiency up to 86%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection aluminium housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety standards: EN61347-1

CE SELV IP66

Dimension in mm



Characteristics

Rated input voltage: AC180-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-150-12T	12V	0-150W	12.5A	>0.65	-40°C	70°C	256x78x47mm
ELED-150-24T	24V	0-150W	6.25A	>0.65	-40°C	70°C	256x78x47mm

ELED-200-T

CV Version

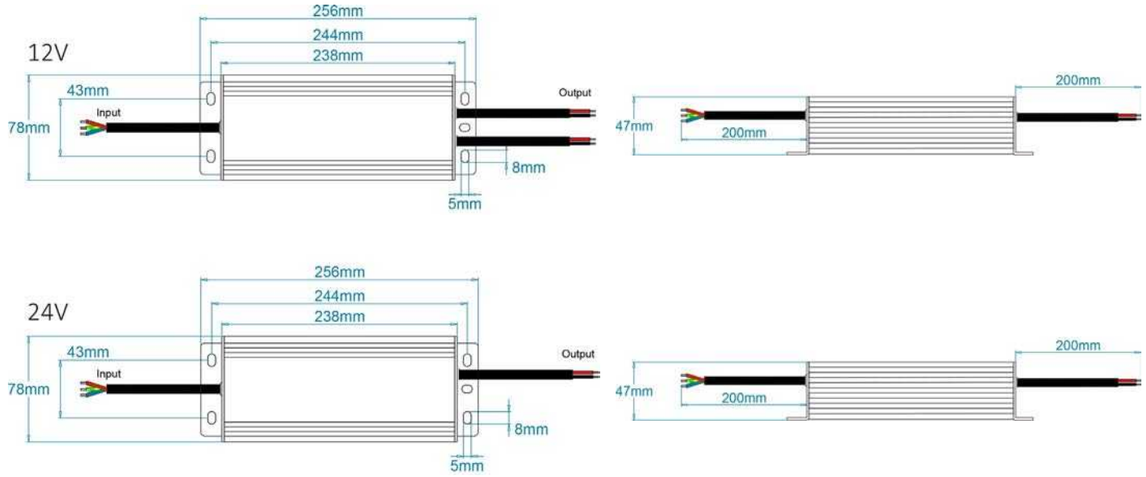
Technical Data

- Constant voltage/ PWM Output
- Leading edge dimmable
- AC input: 180-240VAC
- Efficiency up to 87%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection aluminium housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety standards: EN61347-1

CE SELV IP66

Dimension in mm



Characteristics

Rated input voltage: AC180-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-200-12T	12V	0-200W	16.66A	>0.65	-40°C	70°C	256x78x47mm
ELED-200-24T	24V	0-200W	8.33A	>0.65	-40°C	70°C	256x78x47mm

ELED-15-C150/700T

CC Version

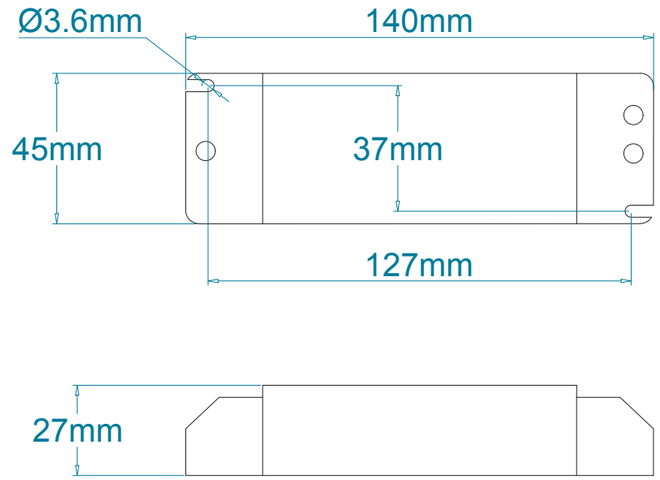
Technical Data

- Constant Current mode output with multiple levels selectable by dip switch
- Leading edge dimmable
- AC input: 180-240VAC
- Efficiency up to 78%
- Protections: Short circuit/ Over load/ Over current
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety standards: EN61347-1

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC180-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Current	Load	Voltage Range	PF	Min	Max	L x W x H
ELED-15-C150/700T	150mA	3-7.5W	20-50V	>0.65	-40°C	60°C	140x45x27mm
	250mA	1-12.5W	3-50V	>0.65	-40°C	60°C	140x45x27mm
	350mA	1-15.75W	3-45V	>0.65	-40°C	60°C	140x45x27mm
	400mA	1.2-14.8W	3-37V	>0.65	-40°C	60°C	140x45x27mm
	450mA	1.3-14.85W	3-33V	>0.65	-40°C	60°C	140x45x27mm
	500mA	1.5-15W	3-30V	>0.65	-40°C	60°C	140x45x27mm
	600mA	1.8-15W	3-25V	>0.65	-40°C	60°C	140x45x27mm
	700mA	2.1-15.4W	3-22V	>0.65	-40°C	60°C	140x45x27mm

ELED-25-C300/900T

CC Version

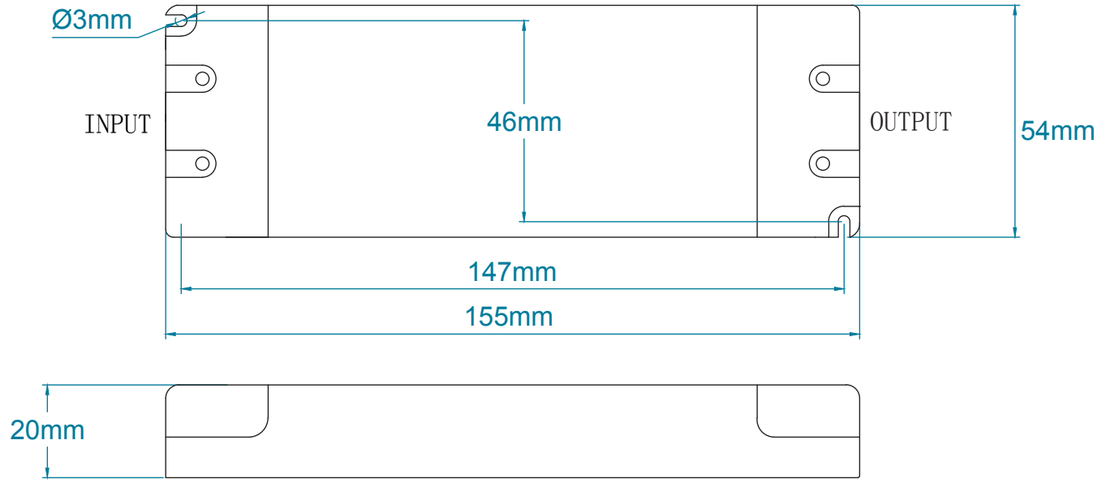
Technical Data

- Constant Current mode output with multiple levels selectable by dip switch
- Leading edge dimmable
- AC input: 180-240VAC
- Efficiency up to 80%
- Protections: Short circuit/ Over load/ Over current
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety standards: EN61347-1

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC180-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Current	Load	Voltage Range	PF	Min	Max	L x W x H
ELED-25-C300/900T	300mA	2.7-15W	3-50V	>0.65	-40°C	60°C	155x54x20mm
	350mA	2.55-17.5W	3-50V	>0.65	-40°C	60°C	155x54x20mm
	500mA	1.5-25W	3-50V	>0.65	-40°C	60°C	155x54x20mm
	550mA	1.65-22.5W	3-45V	>0.65	-40°C	60°C	155x54x20mm
	650mA	1.95-24.7W	3-38V	>0.65	-40°C	60°C	155x54x20mm
	700mA	2.1-24.5W	3-35V	>0.65	-40°C	60°C	155x54x20mm
	850mA	2.55-25.5W	3-30V	>0.65	-40°C	60°C	155x54x20mm
	900mA	2.7-25.2W	3-28V	>0.65	-40°C	60°C	155x54x20mm

ELED-50-C700/1400T

CC Version

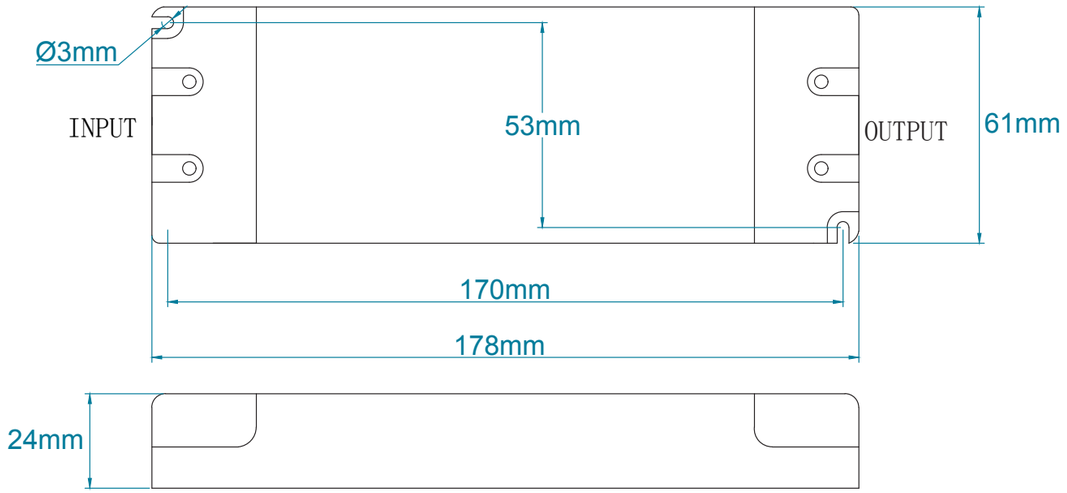
Technical Data

- Constant Current mode output with multiple levels selectable by dip switch
- Leading edge dimmable
- AC input: 180-240VAC
- Efficiency up to 82%
- Protections: Short circuit/ Over load/ Over current
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety standards: EN61347-1

CE SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC180-240V 47/63 Hz (power factor measured at AC220V and full load)

Model No.	Constant output Current	Load	Voltage Range	PF	Min	Max	L x W x H
ELED-50-C700/1400T	700mA	7-35W	10-50V	>0.65	-40°C	60°C	178x61x24mm
	850mA	8.5-42.5W	10-50V	>0.65	-40°C	60°C	178x61x24mm
	900mA	9-45W	10-50V	>0.65	-40°C	60°C	178x61x24mm
	1050mA	10.5-50.4W	10-48V	>0.65	-40°C	60°C	178x61x24mm
	1150mA	11.5-49.45W	10-43V	>0.65	-40°C	60°C	178x61x24mm
	1250mA	12.5-50W	10-40V	>0.65	-40°C	60°C	178x61x24mm
	1300mA	13-49.4W	10-38V	>0.65	-40°C	60°C	178x61x24mm
	1400mA	14-50.4W	10-36V	>0.65	-40°C	60°C	178x61x24mm

NOTES

PREMIUM Triac Dimmable Series

• Constant Voltage

PREMIUM Triac Dimmable Series

Ecopac Premium Triac Dimmable LED Power Supply is a perfect solution for:

• Dimming LED Lighting
• Retro Fit
• Full Lighting Approvals

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ELED-360P-T
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ELED-30P-T

CV Version

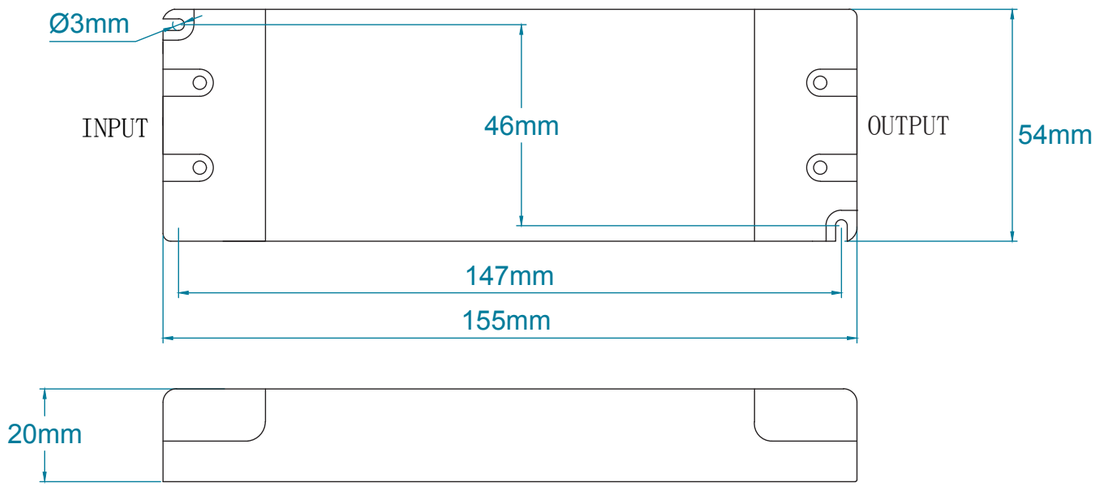
Technical Data

- Constant voltage/ PWM Output
- Leading & Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 79%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

CE SELV IP20

Safety According to EN61347-1, EN61347-2-13
EMC Emission: EN55015, EN61000-3-2,3

Dimension in mm



Characteristics

Rated input voltage: AC 200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-30P-12T	12V	0-30W	2.5A	>0.97	-40°C	70°C	155x54x20mm
ELED-30P-24T	24V	0-30W	1.25A	>0.97	-40°C	70°C	155x54x20mm

ELED-60P-T

CV Version

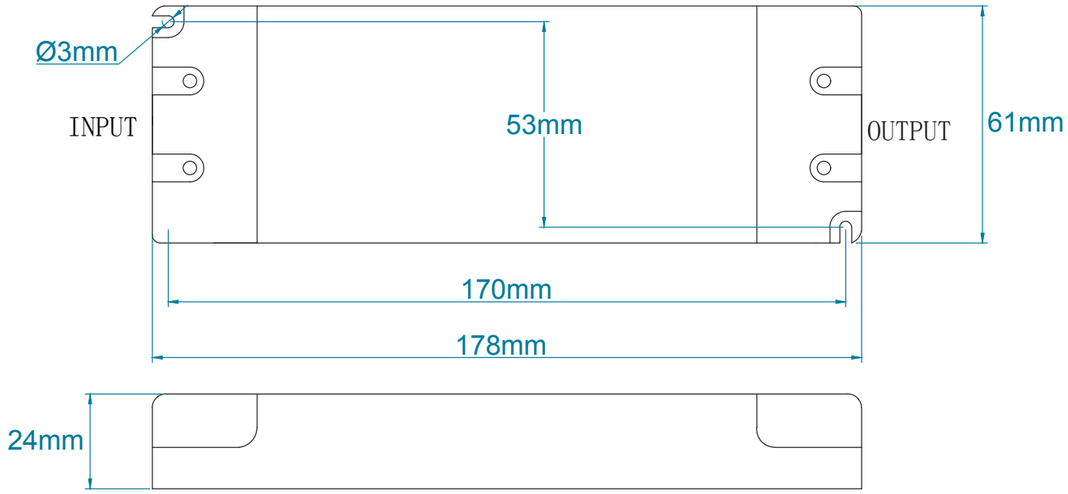
Technical Data

- Constant voltage/ PWM Output
- Leading & Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 86%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety According to EN61347-1, EN61347-2-13
EMC Emission: EN55015, EN61000-3-2,3

CE SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC 200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-60P-12T	12V	0-60W	5A	>0.98	-40°C	70°C	178x61x24mm
ELED-60P-24T	24V	0-60W	2.5A	>0.98	-40°C	70°C	178x61x24mm

ELED-90P-T

CV Version

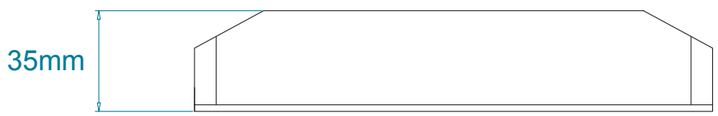
Technical Data

- Constant voltage/ PWM Output
- Leading & Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 86%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

SELV IP20

Safety According to EN61347-1, EN61347-2-13
EMC Emission: EN55015, EN61000-3-2,3

Dimension in mm



Characteristics

Rated input voltage: AC 200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-90P-12T	12V	0-90W	7.5A	>0.98	-40°C	70°C	180x60x35mm
ELED-90P-24T	24V	0-90W	3.75A	>0.98	-40°C	70°C	180x60x35mm

ELED-100P-T

CV Version

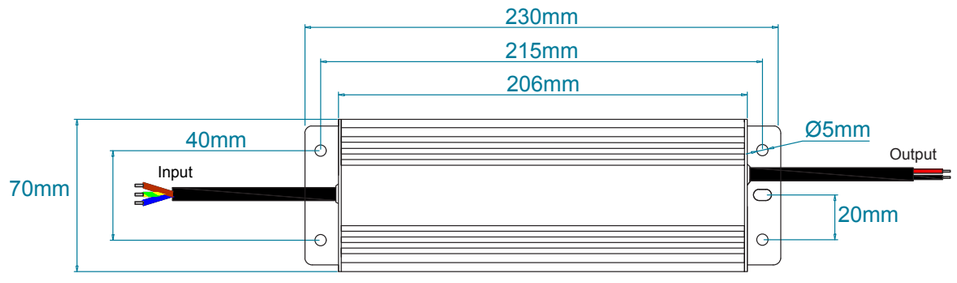
Technical Data

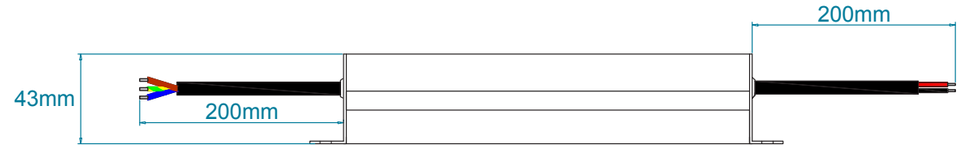
- Constant voltage/ PWM Output
- Leading & Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 84%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection aluminium housing
- Cooling by free air convection
- Suitable for LED lighting and moving signs

SELV IP66

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

Dimension in mm





Characteristics

Rated input voltage: AC 200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-100P-12T	12V	0-100W	8.33A	>0.97	-40°C	60°C	230x70x43mm
ELED-100P-24T	24V	0-100W	4.16A	>0.97	-40°C	60°C	230x70x43mm

ELED-150P-T

CV Version

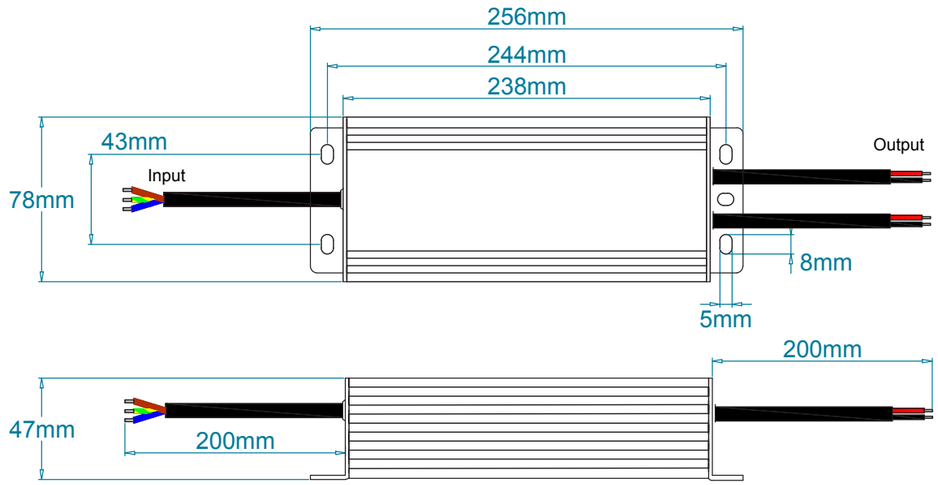
Technical Data

- Constant voltage/ PWM Output
- Leading & Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 87%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection aluminium housing
- Cooling by free air convection
- Suitable for LED lighting and moving signs

SELV IP66

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

Dimension in mm



Characteristics

Rated input voltage: AC 200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-150P-12T	12V	0-150W	12.5A	>0.97	-40°C	60°C	256x78x47mm
ELED-150P-24T	24V	0-150W	6.25A	>0.97	-40°C	60°C	256x78x47mm

PREMIUM Triac Dimmable Series

ELED-200P-T

CV Version

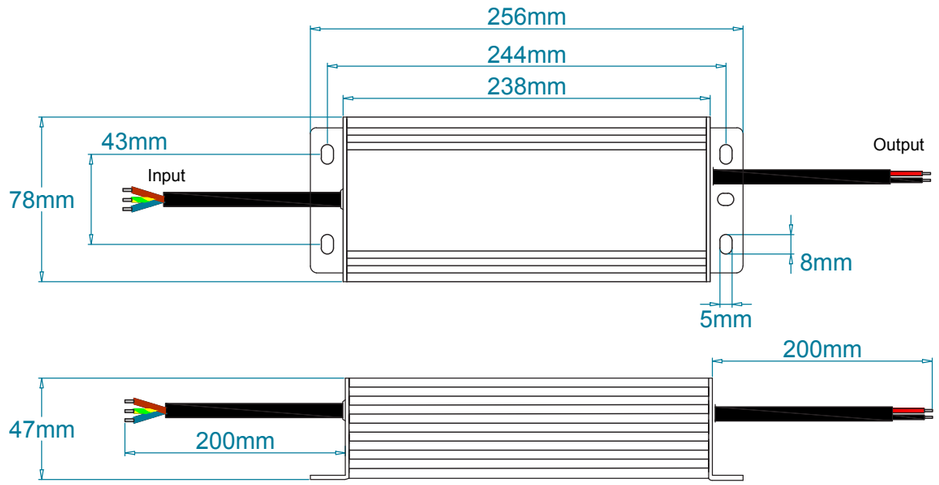
Technical Data

- Constant voltage/ PWM Output
- Leading & Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 87%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection aluminium housing
- Cooling by free air convection
- Suitable for LED lighting and moving signs

SELV IP66

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

Dimension in mm



Characteristics

Rated input voltage: AC 200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-200P-12T	12V	0-200W	16.6A	>0.97	-40°C	60°C	265x78x47mm
ELED-200P-24T	24V	0-200W	8.3A	>0.97	-40°C	60°C	265x78x47mm

ELED-300P-T

CV Version

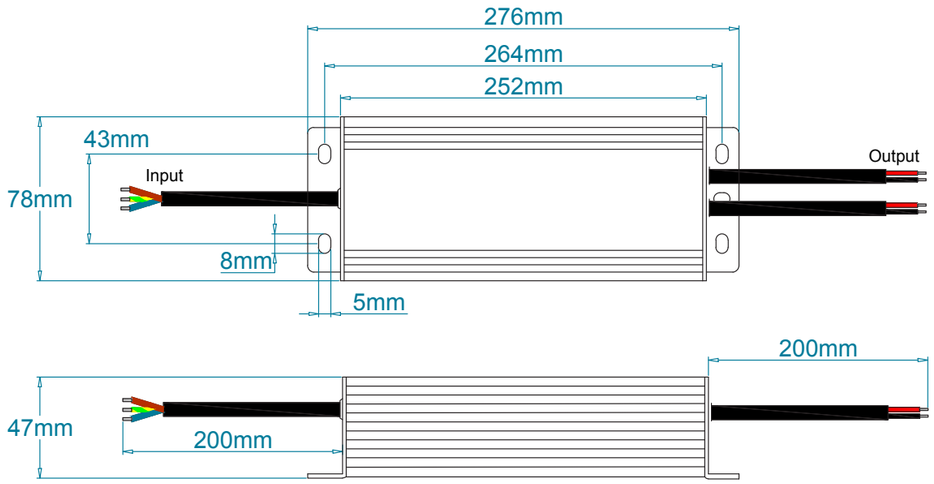
Technical Data

- Constant voltage/ PWM Output
- Leading & Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 87%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection aluminium housing
- Cooling by free air convection
- Suitable for LED lighting and moving signs

SELV IP66

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

Dimension in mm



Characteristics

Rated input voltage: AC 200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-300P-12T	12V	0-300W	25A	>0.97	-40°C	60°C	276x78x47mm
ELED-300P-24T	24V	0-300W	12.5A	>0.97	-40°C	60°C	276x78x47mm

PREMIUM Triac Dimmable Series

ELED-360P-T

CV Version

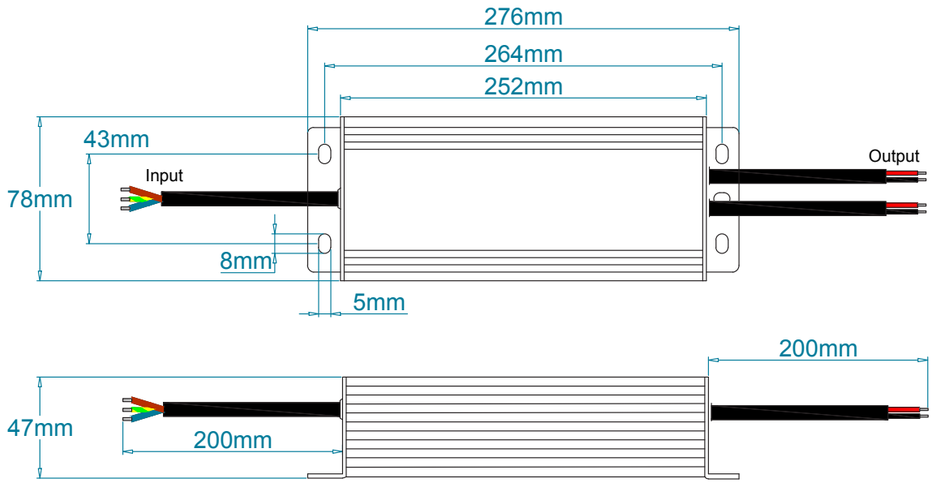
Technical Data

- Constant voltage/ PWM Output
- Leading & Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 87%
- Protections: Short circuit/ Over loading/ Over current/ Over temperature
- Full protection aluminium housing
- Cooling by free air convection
- Suitable for LED lighting and moving signs

SELV IP66

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

Dimension in mm



Characteristics

Rated input voltage: AC 200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-360P-12T	12V	0-360W	30A	>0.97	-40°C	60°C	276x78x47mm
ELED-360P-24T	24V	0-360W	15A	>0.97	-40°C	60°C	276x78x47mm

DALI & PUSH Dimmable LED Power Supply

- Constant Voltage
- Constant Current

DALI & PUSH Dimmable Series

Ecopac DALI Dimmable LED Power Supply is a perfect dimming solution for:

- Smart Homes
- Office blocks
- Restaurants
- Hotels

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ELED-200-D
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ELED-360-D
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ELED-20-250/700D
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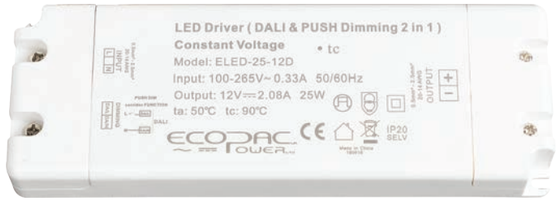
ELED-25-D

CV Version



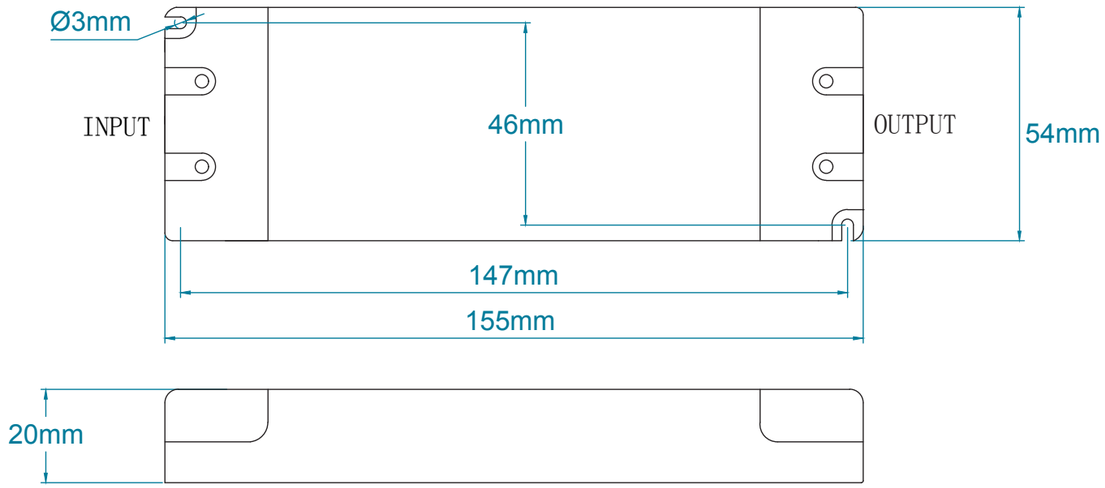
Technical Data

- Constant voltage/ PWM Output
- DALI & Push dimming function
- AC input: 100-265VAC
- Built-in active PFC function
- Efficiency up to 82%
- Protections: Short circuit/ Over load/ Over temperature
- Cooling by free air convection
- IP20 design for indoor installation
- Suitable for intelligent LED lighting

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC100-265V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-25-12D	12V	0-25W	2.08A	>0.90	-40°C	60°C	155x54x20mm
ELED-25-24D	24V	0-25W	1.04A	>0.90	-40°C	60°C	155x54x20mm

DALI & PUSH Dimmable LED Power Supply

ELED-50-D

CV Version

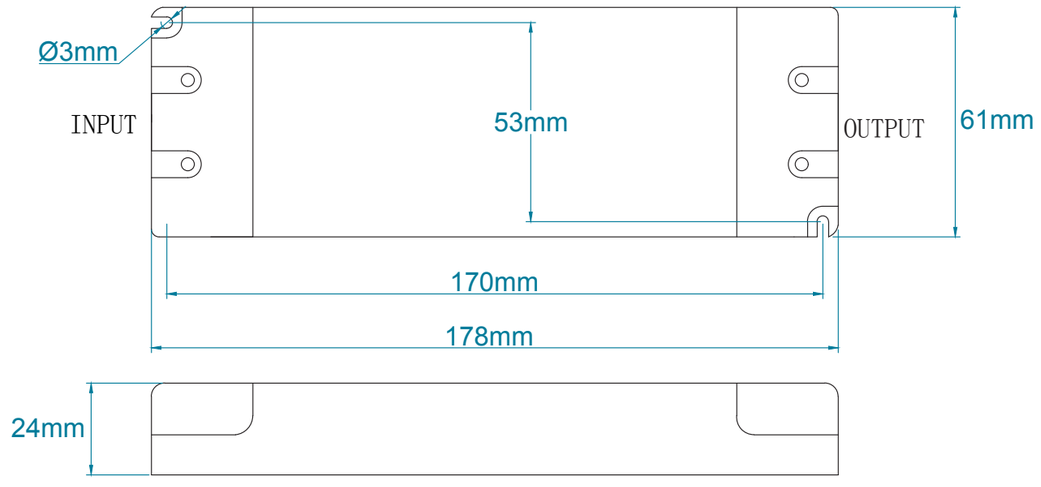
Technical Data

- Constant voltage/ PWM Output
- DALI & Push dimming function
- AC input: 100-265VAC
- Built-in active PFC function
- Efficiency up to 84%
- Protections: Short circuit/ Over load/ Over temperature
- Cooling by free air convection
- IP20 design for indoor installation
- Suitable for intelligent LED lighting

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC100-265V 47/63 Hz [power factor measured at AC120V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-50-12D	12V	0-50W	4.16A	>0.95	-40°C	60°C	178x61x24mm
ELED-50-24D	24V	0-50W	2.08A	>0.95	-40°C	60°C	178x61x24mm

ELED-75-D

CV Version

Technical Data

- Constant voltage/ PWM Output
- DALI & Push dimming function
- AC input: 100-265VAC
- Built-in active PFC function
- Efficiency up to 87%
- Protections: Short circuit/ Over load/ Over temperature
- Cooling by free air convection
- IP20 design for indoor installation
- Suitable for intelligent LED lighting

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

SELV IP20

Dimension in mm

Characteristics

Rated input voltage: AC100-265V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-75-12D	12V	0-75W	6.25A	>0.95	-40°C	60°C	180x60x35 mm
ELED-75-24D	24V	0-75W	3.12A	>0.95	-40°C	60°C	180x60x35 mm

DALI & PUSH Dimmable LED Power Supply

ELED-100-D

CV Version

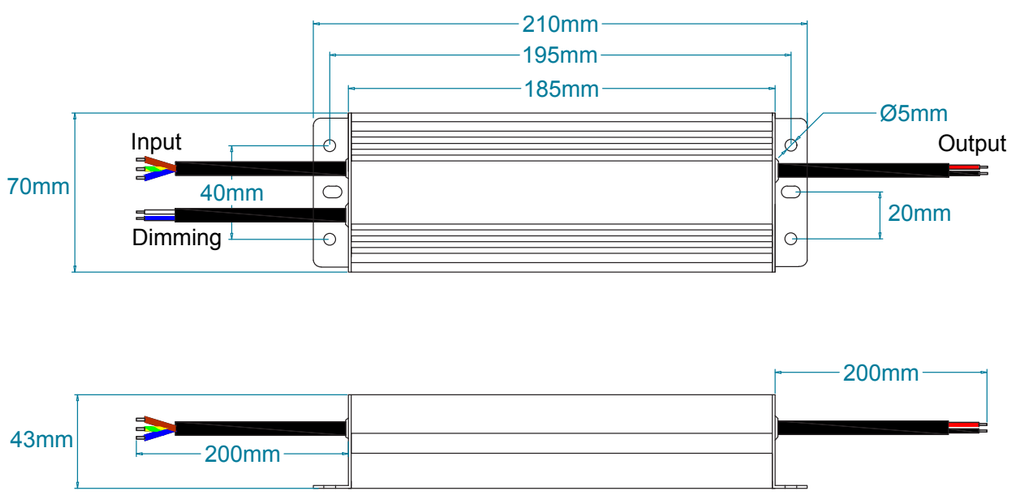
Technical Data

- Constant voltage/ PWM Output
- DALI & Push dimming function
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 87%
- Protections: Short circuit/ Over load/ Over temperature
- Cooling by free air convection
- IP66 design for indoor and outdoor installation
- Suitable for intelligent LED lighting

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

SELV IP66

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-100-12D	12V	0-100W	8.34A	>0.99	-40°C	60°C	210x70x43mm
ELED-100-24D	24V	0-100W	4.17A	>0.99	-40°C	60°C	210x70x43mm

ELED-200-D

CV Version

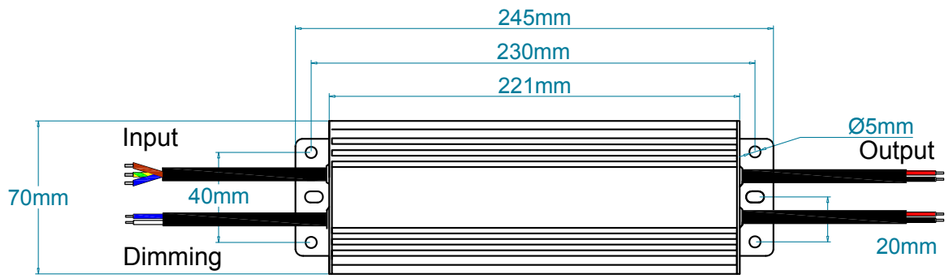
Technical Data

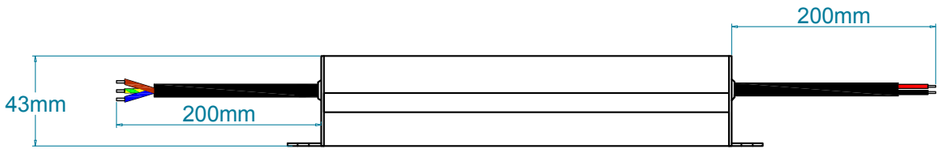
- Constant voltage/ PWM Output
- DALI & Push dimming function
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 88.4%
- Protections: Short circuit/ Over load/ Over temperature
- Cooling by free air convection
- IP66 design for indoor and outdoor installation
- Suitable for intelligent LED lighting

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

SELV IP66

Dimension in mm





Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-200-12D	12V	0-200W	16.67A	>0.98	-40°C	60°C	245x70x43mm
ELED-200-24D	24V	0-200W	8.34A	>0.98	-40°C	60°C	245x70x43mm

DALI & PUSH Dimmable LED Power Supply

ELED-360-D

CV Version

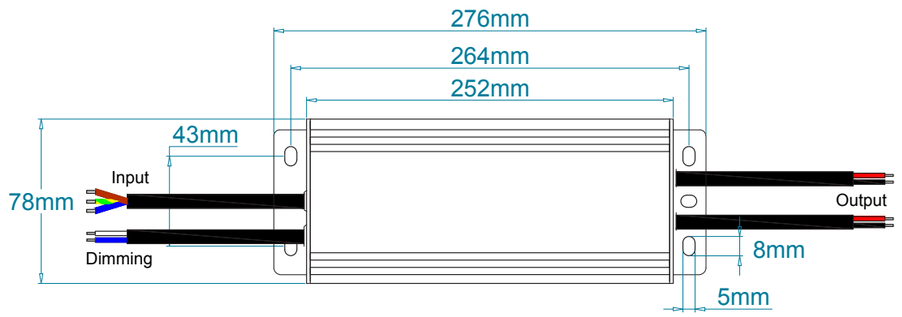
Technical Data

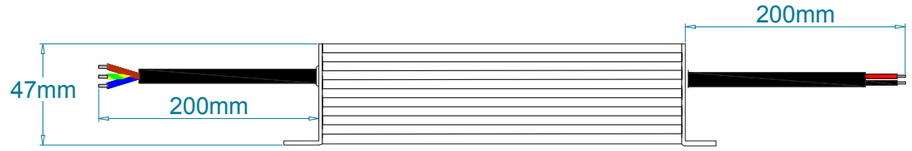
- Constant voltage/ PWM Output
- DALI & Push dimming function
- AC input: 100-265VAC
- Built-in active PFC function
- Efficiency up to 91.2%
- Protections: Short circuit/ Over load/ Over temperature
- Cooling by free air convection
- IP66 design for indoor and outdoor installation
- Suitable for intelligent LED lighting

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

SELV IP66

Dimension in mm





Characteristics

Rated input voltage: AC100-265V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-360-12D	12V	0-360W	30A	>0.98	-40°C	60°C	276x78x47mm
ELED-360-24D	24V	0-360W	15A	>0.98	-40°C	60°C	276x78x47mm

DALI Dimmable LED Power Supply

ELED-20-D

CC Version

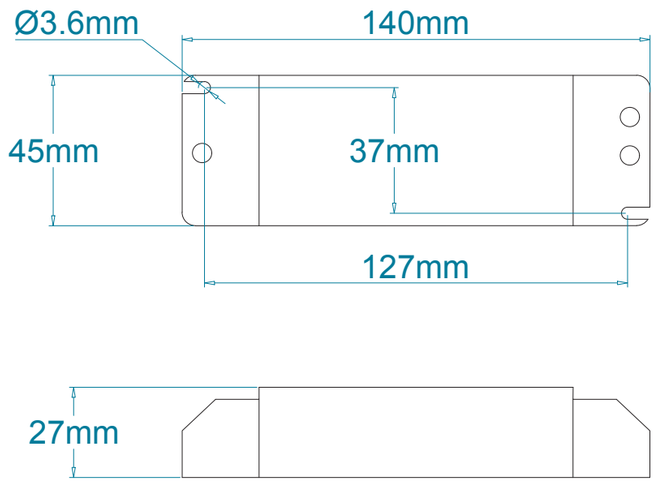
Technical Data

- Constant Current mode output with multiple levels selectable by dip switch
- DALI dimming function
- AC input: 100-265VAC
- Built-in active PFC function
- Efficiency up to 86%
- Protections: Short circuit/ Over load/ Over temperature
- Cooling by free air convection
- Suitable for intelligent LED lighting

Safety According to EN61000-4-2,3,4,5,6,11, EN61547, EN55015, EN61000-3-2, 3 (>60%load)

CE SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC100-265V 47/63 Hz (power factor measured at AC220V and full load)

Model No.	Constant output Current	Load	Voltage Range	PF	Min	Max	L x W x H
ELED-20-250-750D	250mA	0.75-12.5W	3-50V	>0.92	-40°C	60°C	140x45x27mm
	350mA	1.05-17.5W	3-50V	>0.93	-40°C	60°C	140x45x27mm
	400mA	1.2-20W	3-50V	>0.94	-40°C	60°C	140x45x27mm
	450mA	1.35-20W	3-45V	>0.94	-40°C	60°C	140x45x27mm
	500mA	1.5-20W	3-40V	>0.94	-40°C	60°C	140x45x27mm
	550mA	1.65-20W	3-36V	>0.94	-40°C	60°C	140x45x27mm
	600mA	1.8-20W	3-32V	>0.94	-40°C	60°C	140x45x27mm
	700mA	2.1-20W	3-28V	>0.94	-40°C	60°C	140x45x27mm

Sales: 01844 204420 Tech. Support: 01844 204430

NOTES

0/1-10V Dimmable LED Power Supply

• Constant Voltage

0/1-10V Dimmable Series

Ecopac 0-10V Dimmable LED Power Supply is a perfect solution for:

• CV Strip
• 0/1-10V Dimmable applications

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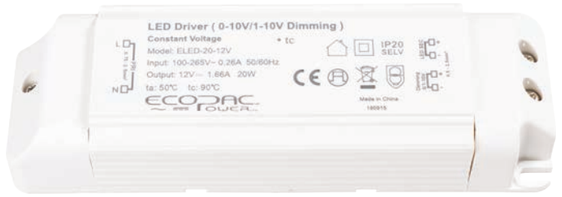
ELED-20-V

CV Version



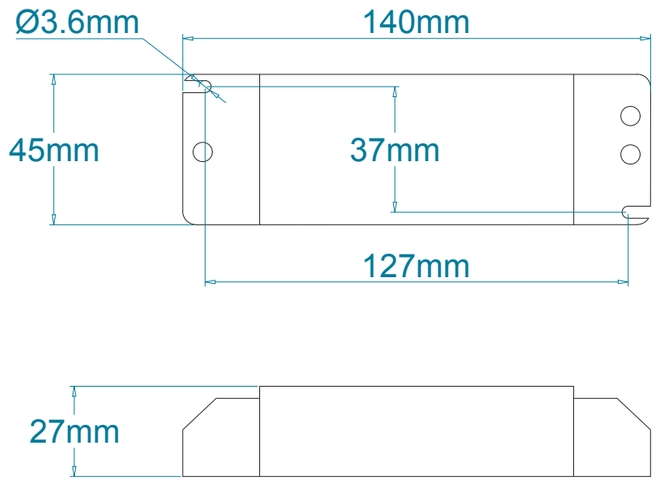
Technical Data

- Constant voltage
- 3 in 1 dimming function (0/1-10Vdc or 10v PWM signal or resistance)
- AC input: 100-265VAC
- Built-in active PFC function
- High efficiency up to 82%
- Protections: Short circuit/Over current/ Over loading
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety According to N55015, EN61000-3-2, N61000-4-2,3,4,5,6,11, EN61547, light industry Level Criteria A

SELV IP20

Dimension in mm



Characteristics

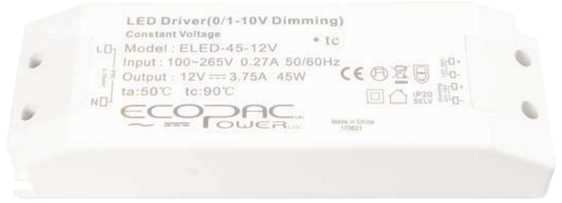
Rated input voltage: AC100-265V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-20-12V	12V	0-20W	1.67A	>0.95	-40°C	60°C	140x45x27mm
ELED-20-24V	24V	0-20W	0.83A	>0.95	-40°C	60°C	140x45x27mm

0/1-10V Dimmable LED Power Supply

ELED-45-V

CV Version



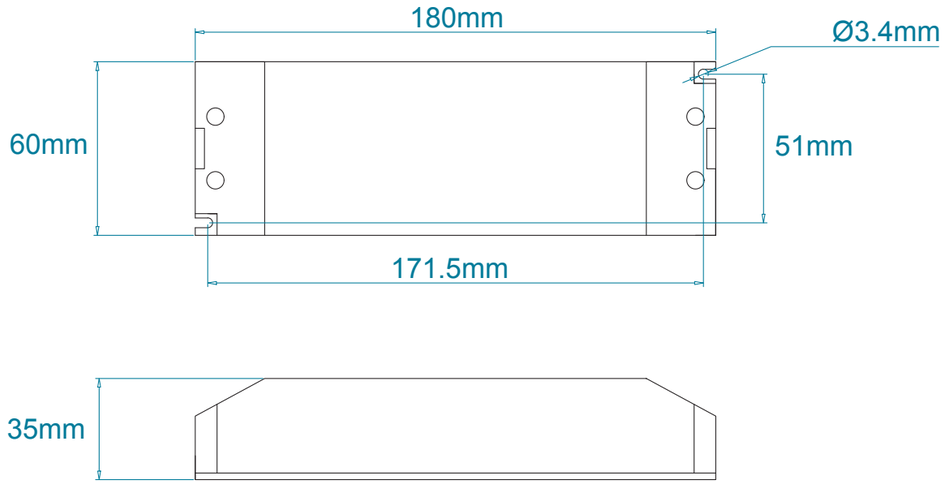
Technical Data

- Constant voltage
- 3 in 1 dimming function (0/1-10Vdc or 10v PWM signal or resistance)
- AC input: 100-265VAC
- Built-in active PFC function
- High efficiency up to 85%
- Protections: Short circuit/Over current/ Over loading
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety According to N55015, EN61000-3-2, N61000-4-2,3,4,5,6,11, EN61547, light industry Level Criteria A

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC100-265V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-45-12V	12V	0-45W	3.75A	>0.90	-40°C	60°C	180x60x35mm
ELED-45-24V	24V	0-45W	1.87A	>0.90	-40°C	60°C	180x60x35mm

ELED-60-V

CV Version

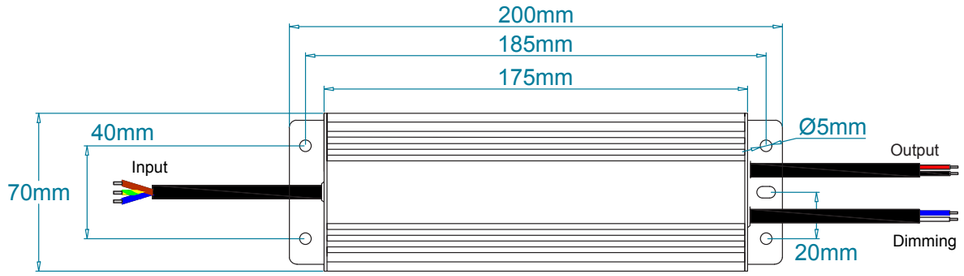
Technical Data

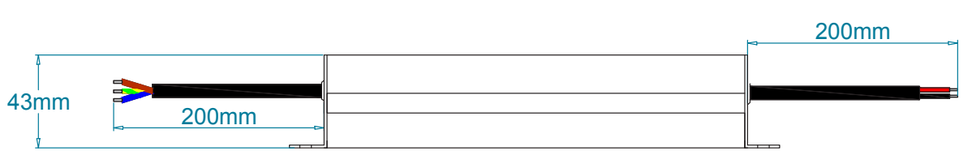
- Constant voltage
- 3 in 1 dimming function (0/1-10Vdc or 10v PWM signal or resistance)
- AC input: 100-265VAC
- Built-in active PFC function
- High efficiency up to 86%
- Protections: Short circuit/ Over current/ Over loading
- IP66 design for indoor and outdoor installation
- Suitable for LED lighting and moving signs

Safety According to EN61347-1, EN61347-2-13, EN55015,EN61000-3-2, EN61000-4-2,3,4,5,6,11, EN61547

SELV IP66

Dimension in mm





Characteristics

Rated input voltage: AC100-265V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-60-12V	12V	0-60W	5A	>0.92	-40°C	60°C	200x70x43mm
ELED-60-24V	24V	0-60W	2.5A	>0.92	-40°C	60°C	200x70x43mm

0/1-10V Dimmable LED Power Supply

ELED-100-V

CV Version

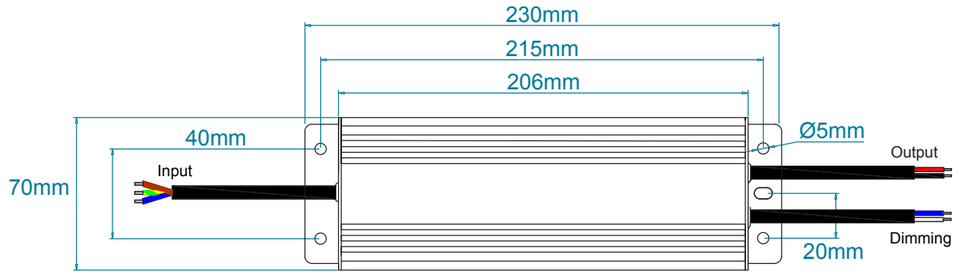
Technical Data

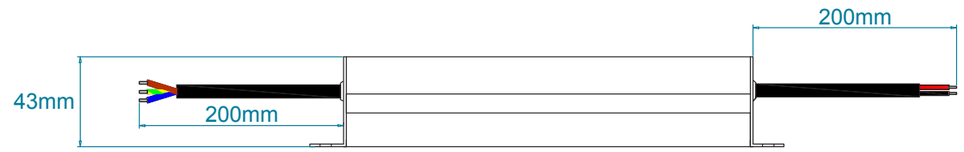
- Constant voltage
- 3 in 1 dimming function (0/1-10Vdc or 10v PWM signal or resistance)
- AC input: 200-240VAC
- Built-in active PFC function
- High efficiency up to 86%
- Protections: Short circuit/ Over current/ Over loading
- IP66 design for indoor and outdoor installation
- Suitable for LED lighting and moving signs

Safety According to EN61347-1, EN61347-2-13, EN55015, EN61000-3-2 (≥60%load), EN61000-4-2,3,4,5,6,11, EN61547

SELV IP66

Dimension in mm





Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-100-12V	12V	0-100W	8.34A	>0.98	-40°C	60°C	230x70x43mm
ELED-100-24V	24V	0-100W	4.17A	>0.98	-40°C	60°C	230x70x43mm

ELED-200-V

CV Version

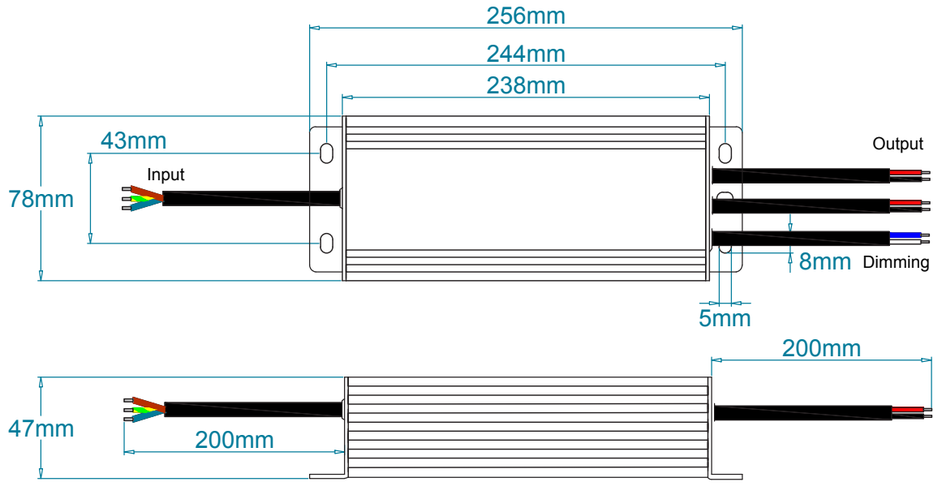
Technical Data

- Constant voltage
- 3 in 1 dimming function (0/1-10Vdc or 10v PWM signal or resistance)
- AC input: 100-265VAC
- Built-in active PFC function
- High efficiency up to 89%
- Protections: Short circuit/ Over current/ Over loading
- IP66 design for indoor and outdoor installation
- Suitable for LED lighting and moving signs

Safety According to EN61347-1, EN61347-2-13, EN55015,EN61000-3-2, EN61000-4-2,3,4,5,6,11, EN61547

SELV IP66

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-200-12V	12V	0-200W	16.67A	>0.98	-40°C	60°C	256x78x47mm
ELED-200-24V	24V	0-200W	8.34A	>0.98	-40°C	60°C	256x78x47mm

ELED-300-V

CV Version

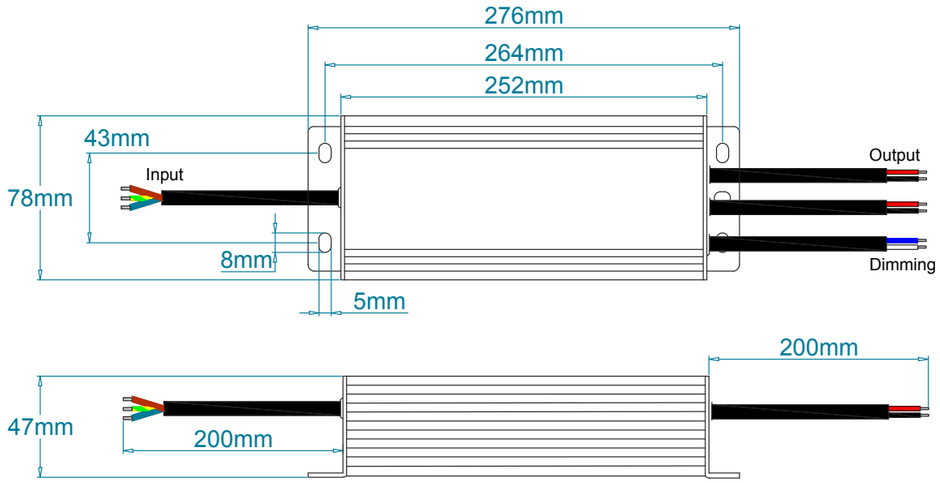
Technical Data

- Constant voltage
- 3 in 1 dimming function (0/1-10Vdc or 10v PWM signal or resistance)
- AC input: 100-265VAC
- Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit/ Over current/ Over loading
- IP66 design for indoor and outdoor installation
- Suitable for LED lighting and moving signs

Safety According to EN61347-1, EN61347-2-13, EN55015,EN61000-3-2, EN61000-4-2,3,4,5,6,11, EN61547

SELV IP66

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and full load)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-300-12V	12V	0-300W	25A	>0.98	-40°C	60°C	276x78x47mm
ELED-300-24V	24V	0-300W	12.5A	>0.98	-40°C	60°C	276x78x47mm

Linetype LED Power Supply

• Constant Voltage

Slimline Constant Voltage Series

Ecopac Slimline LED Power Supply is a perfect solution for:

• LED Lighting
• LED Sign Applications (Light Boxes)
• Retails Units
• Cabinets / Furniture
• Bathrooms
• Shelving

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ECP30-VF-1

CV Version

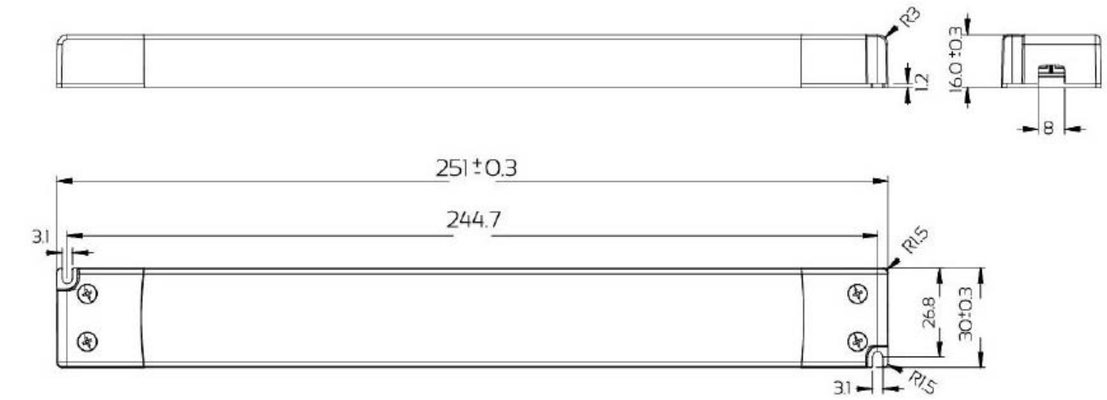
Technical Data

- Slimline Constant Voltage Driver
- Flicker Free
- AC input: 200-240VAC
- Built in PFC Function
- Efficiency up to 85%
- Protections: short circuit/ over loading/ over current
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471,EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ECP30-12VF-1	12V	0-30W	2.5A	>0.90	-20°C	45°C	251x30x16mm
ECP30-24VF-1	24V	0-30W	1.25A	>0.90	-20°C	45°C	251x30x16mm

ECP45-VF-1

CV Version

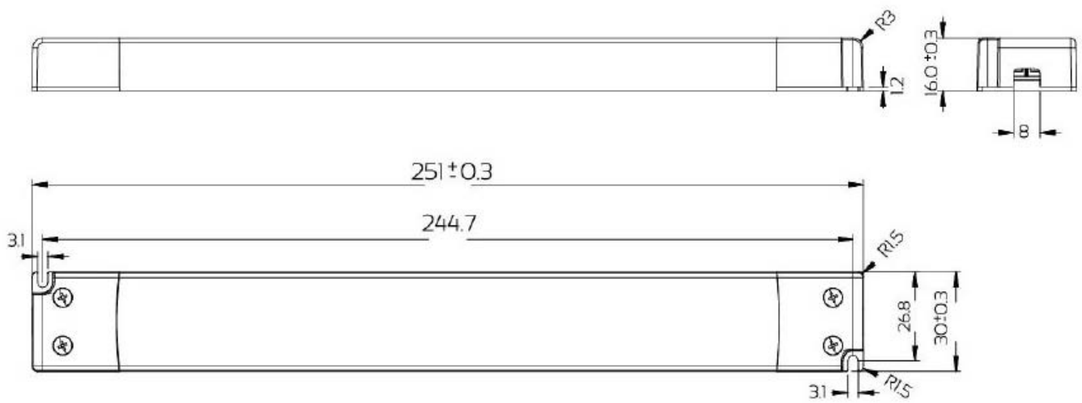
Technical Data

- Slimline Constant Voltage Driver
- Flicker Free
- AC input: 200-240VAC
- Built in PFC Function
- Efficiency up to 85%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471,EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ECP45-12VF-1	12V	0-45W	3.75A	>0.90	-20°C	45°C	251x30x16mm
ECP45-24VF-1	24V	0-45W	1.875A	>0.90	-20°C	45°C	251x30x16mm

ECP60-VF-1

CV Version

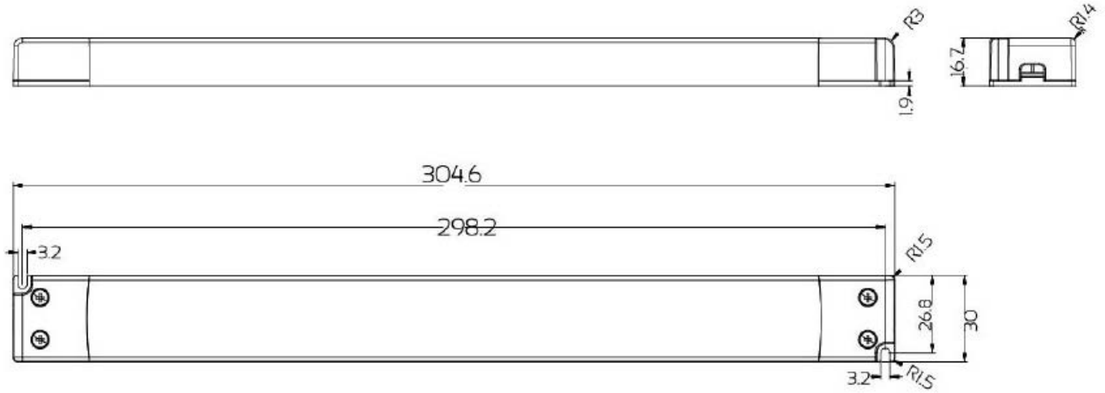
Technical Data

- Slimline Constant Voltage Driver
- Flicker Free
- AC input: 200-240VAC
- Built in PFC Function
- Efficiency up to 88%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

SELV IP20

Safety According to EN613471,EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Tc	L x W x H
ECP60-12VF-1	12V	0-60W	5A	>0.90	-20°C	45°C	304.6x30x16.7mm
ECP60-24VF-1	24V	0-60W	2.5A	>0.90	-20°C	45°C	304.6x30x16.7mm

ECP75-VF-1

CV Version

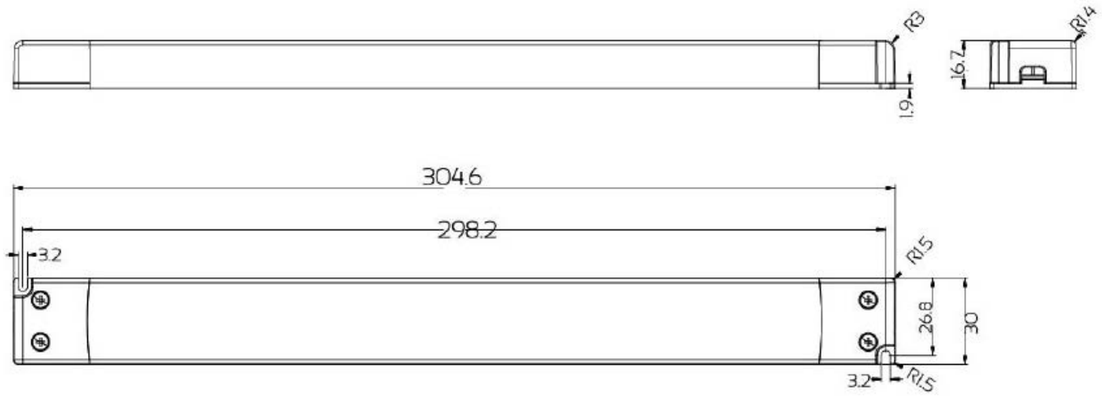
Technical Data

- Slimline Constant Voltage Driver
- Flicker Free
- AC input: 200-240VAC
- Built in PFC Function
- Efficiency up to 89%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

SELV IP20

Safety According to EN613471,EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC230V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ECP75-12VF-1	12V	0-75W	6.25A	>0.90	-20°C	45°C	304.6x30x16.7mm
ECP75-24VF-1	24V	0-75W	3.125A	>0.90	-20°C	45°C	304.6x30x16.7mm

ECP100-VF-1

CV Version

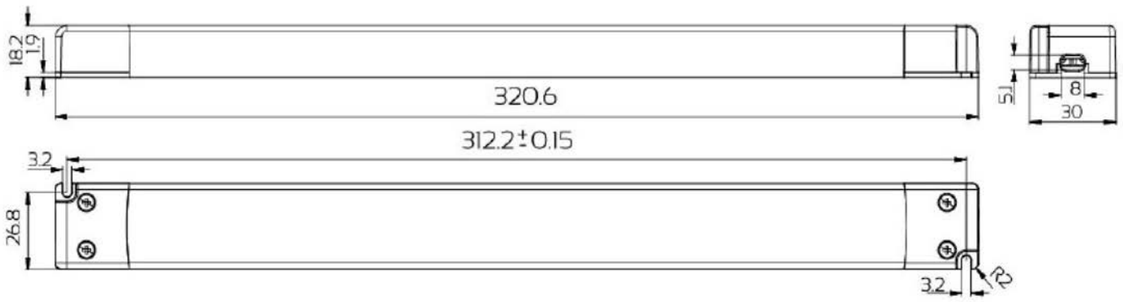
Technical Data

- Slimline Constant Voltage Driver
- Flicker Free
- AC input: 200-240VAC
- Built in PFC Function
- Efficiency up to 90%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

SELV IP20

Safety According to EN613471,EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ECP100-12VF-1	12V	0-100W	8.33A	>0.90	-20°C	45°C	320.6x30x18.2mm
ECP100-24VF-1	24V	0-100W	4.16A	>0.90	-20°C	45°C	320.6x30x18.2mm

ECP150-VF-1

CV Version

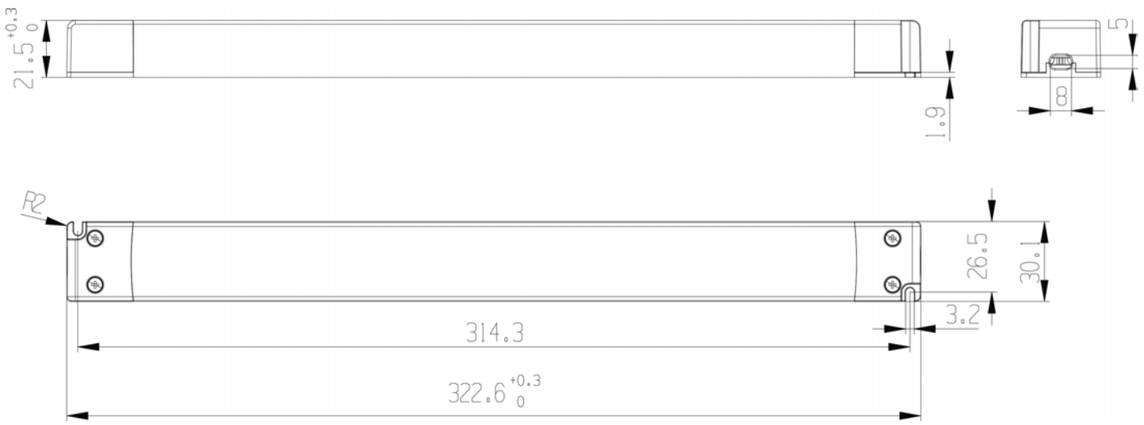
Technical Data

- Slimline Constant Voltage Driver
- Flicker Free
- AC input: 200-240VAC
- Built in PFC Function
- Efficiency up to 90%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

SELV IP20

Safety According to EN613471,EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ECP150-12VF-1	12V	0-150W	12.5A	>0.90	-20°C	45°C	322.6x30.1x21.5mm
ECP150-24VF-1	24V	0-150W	6.25A	>0.90	-20°C	45°C	322.6x30.1x21.5mm

ECP200-VF-1

CV Version

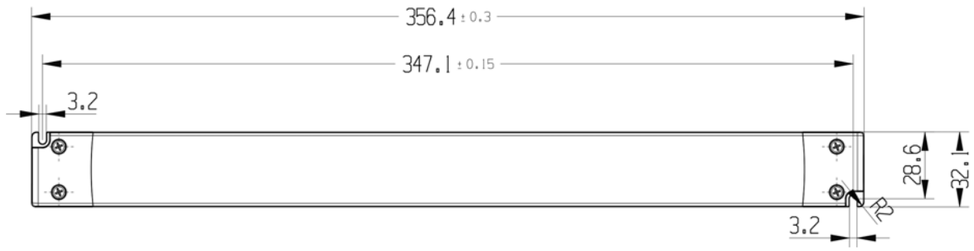
Technical Data

- Slimline Constant Voltage Driver
- Flicker Free
- AC input: 200-240VAC
- Built in PFC Function
- Efficiency up to 93%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

SELV IP20

Safety According to EN613471,EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ECP200-12VF-1	12V	0-200W	15A	>0.95	-20°C	45°C	356.4x32.1x22.3mm
ECP200-24VF-1	24V	0-200W	8.33A	>0.95	-20°C	45°C	356.4x32.1x22.3mm

ECP60-VFP-1

CV Version

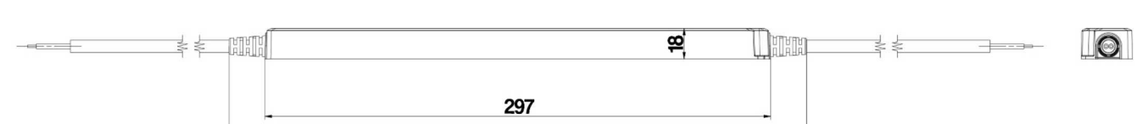
Technical Data

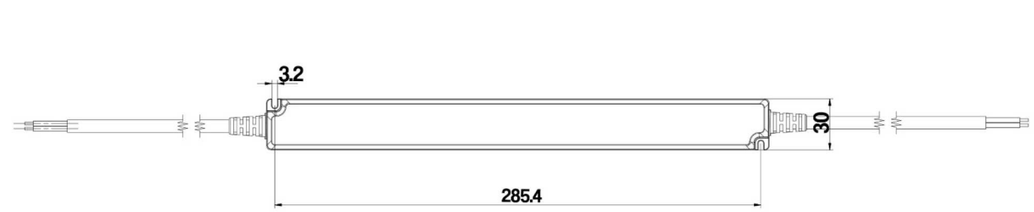
- Slimline Constant Voltage Driver
- Flicker Free
- AC input: 200-240VAC
- Built in PFC Function
- Efficiency up to 88%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

SELV IP66

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

Dimension in mm





Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ECP60-12VFP-1	12V	0-60W	5A	>0.90	-20°C	45°C	297x30x18mm
ECP60-24VFP-1	24V	0-60W	2.5A	>0.90	-20°C	45°C	297x30x18mm

Linetype LED Power Supply

ECP100-VFP-1

CV Version

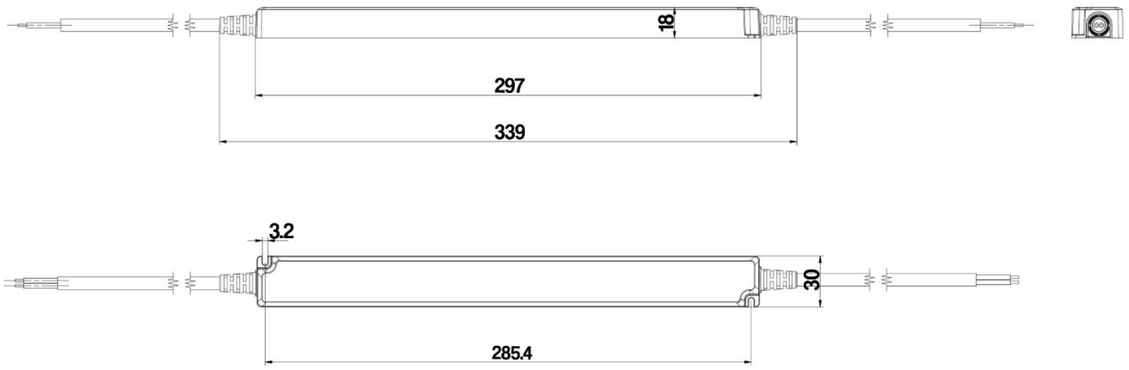
Technical Data

- Slimline Constant Voltage Driver
- Flicker Free
- AC input: 200-240VAC
- Built in PFC Function
- Efficiency up to 88%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP66

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ECP100-12VFP-1	12V	0-100W	8.33A	>0.90	-20°C	45°C	297x30x18mm
ECP100-24VFP-1	24V	0-100W	4.16A	>0.90	-20°C	45°C	297x30x18mm

Sales: 01844 204420 Tech. Support: 01844 204430

NOTES

Slimline Dimmable LED Power Supply

- Triac (Mains)
- DALI

Slimline Dimmable Constant Voltage Series

Ecopac Slimline Dimmable LED Power Supply is a perfect solution for:

- LED Lighting
- LED Sign Applications (Light Boxes)
- Retails Units
- Cabinets / Furniture
- Bathrooms
- Shelving

Triac (Mains) Slimline Dimmable

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COMING SOON

DALI Slimline Dimmable

ELED-30P-D-SL

ELED-60P-D-SL

ELED-100P-D-SL

ELED-30P-D-SLP

ELED-60P-D-SLP

ELED-100P-D-SLP

ELED-30P-T-SL

CV Version

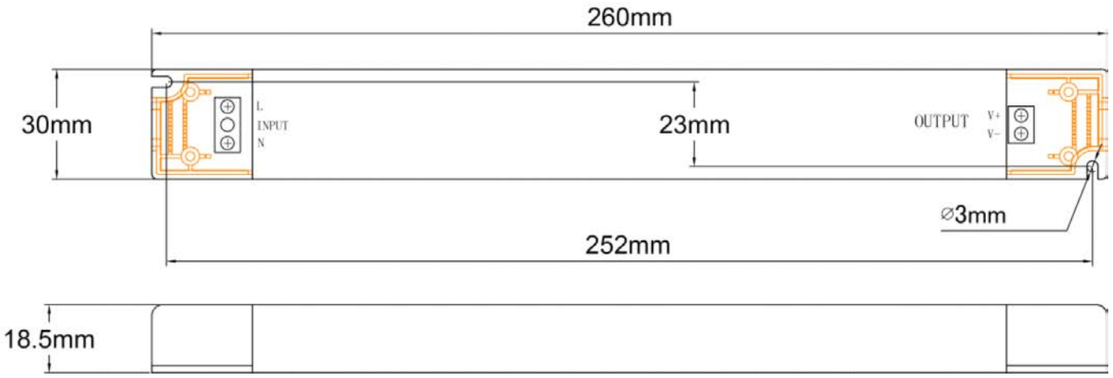
Technical Data

- Slimline Constant Voltage Driver
- PWM Output
- Leading and Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 79%
- Protections: Short circuit/ Over loading / Over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

SELV IP20

Safety: EN613471, EN61347-2-13, EN62493, EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,11,EN61547

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-30P-12T-SL	12V	3-30W	2.5A	>0.96	-40°C	60°C	260x30x18.5mm
ELED-30P-24T-SL	24V	3-30W	1.25A	>0.96	-40°C	60°C	260x30x18.5mm

ELED-60P-T-SL

CV Version

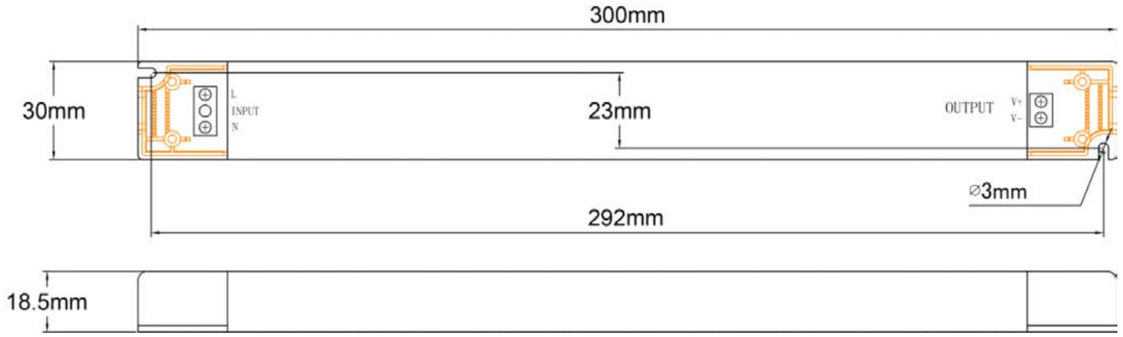
Technical Data

- Slimline Constant Voltage Driver
- PWM Output
- Leading and Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 85%
- Protections: Short circuit/ Over loading / Over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

SELV IP20

Safety: EN613471, EN61347-2-13, EN62493, EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,11,EN61547

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-60P-12T-SL	12V	6-60W	5A	>0.96	-40°C	60°C	300x30x18.5mm
ELED-60P-24T-SL	24V	6-60W	2.5A	>0.96	-40°C	60°C	330x30x18.5mm

ELED-100P-T-SL

CV Version

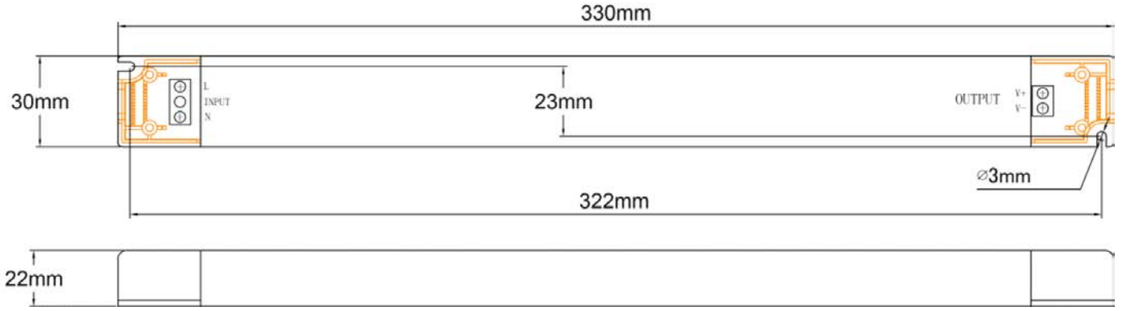
SELV IP20

Technical Data

- Slimline Constant Voltage Driver
- PWM Output
- Leading and Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 88%
- Protections: Short circuit/ Over loading / Over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety: EN613471, EN61347-2-13, EN62493, EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,11,EN61547

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-100P-12T-SL	12V	10-100W	8.33A	>0.96	-40°C	60°C	330x30x22mm
ELED-100P-24T-SL	24V	10-100W	4.17A	>0.96	-40°C	60°C	330x30x22mm

Slimline Dimmable LED Power Supply

ELED-30P-T-SLP

CV Version

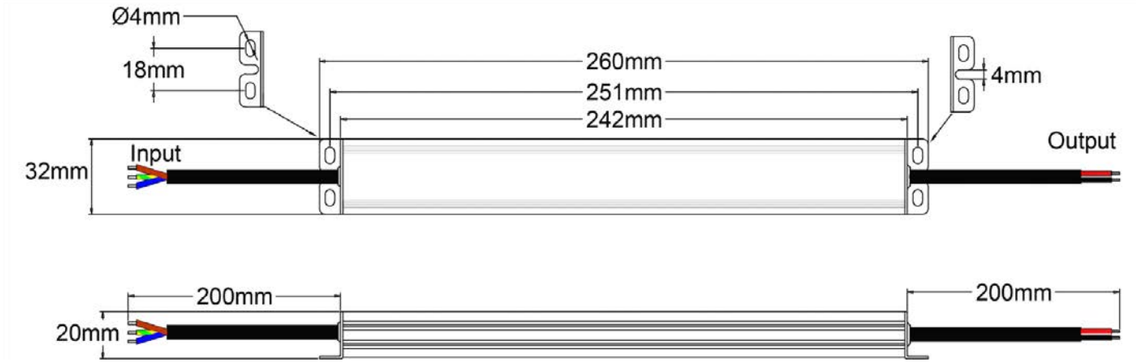
SELV IP66

Technical Data

- Slimline Constant Voltage Driver
- PWM Output
- Leading and Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 79%
- Protections: Short circuit/ Over loading / Over temperature
- Full protection aluminium housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety: EN613471, EN61347-2-13, EN62493, EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,11,EN61547

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-30P-12T-SLP	12V	3-30W	2.5A	>0.96	-40°C	60°C	300x32x22mm
ELED-30P-24T-SLP	24V	3-30W	1.25A	>0.96	-40°C	60°C	330x32x22mm

ELED-60P-T-SLP

CV Version

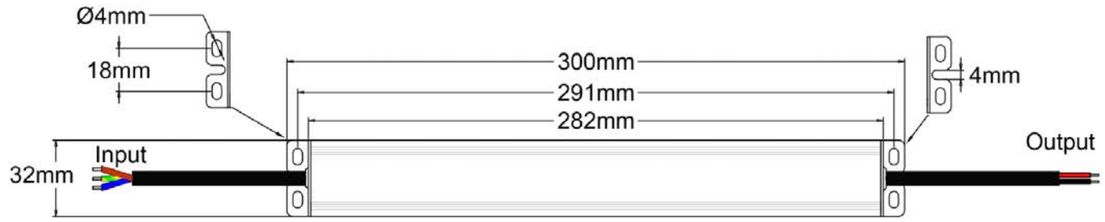
SELV IP66

Technical Data

- Slimline Constant Voltage Driver
- PWM Output
- Leading and Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 85%
- Protections: Short circuit/ Over loading / Over temperature
- Full protection aluminium housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety: EN613471, EN61347-2-13, EN62493, EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,11,EN61547

Dimension in mm



Characteristics

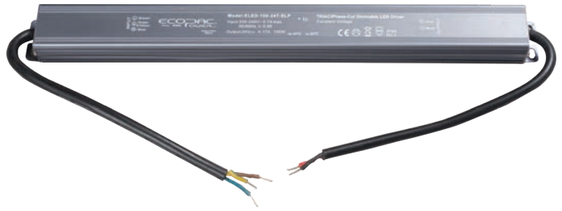
Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-60P-12T-SLP	12V	6-60W	5A	>0.96	-40°C	60°C	300x32x20mm
ELED-60P-24T-SLP	24V	6-60W	2.5A	>0.96	-40°C	60°C	300x32x20mm

Slimline Dimmable LED Power Supply

ELED-100P-T-SLP

CV Version



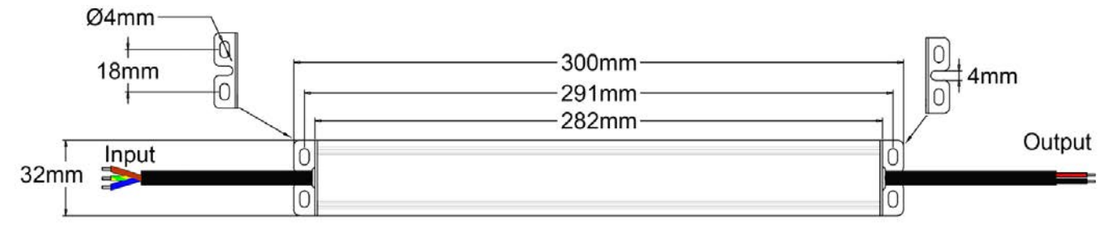
SELV IP66

Technical Data

- Slimline Constant Voltage Driver
- PWM Output
- Leading and Trailing edge dimmable
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 88%
- Protections: Short circuit/ Over loading / Over temperature
- Full protection aluminium housing easy installation
- Cooling by free air convection
- Suitable for LED lighting and moving signs

Safety: EN613471, EN61347-2-13, EN62493, EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,11,EN61547

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 47/63 Hz (power factor measured at AC230V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
ELED-100P-12T-SLP	12V	10-100W	8.33A	>0.96	-40°C	60°C	330x32x23mm
ELED-100P-24T-SLP	24V	10-100W	4.17A	>0.96	-40°C	60°C	330x32x23mm

Regular & Low Profile LED Power Supply

- Constant Voltage
- Constant Current

4W - 200W

EcopacLow Profile LED Power Supply is a perfect solution for:

- Cabinet/Shelving
- Furniture
- Limited space
- Shop front

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ECP8-VL-1

CV Version

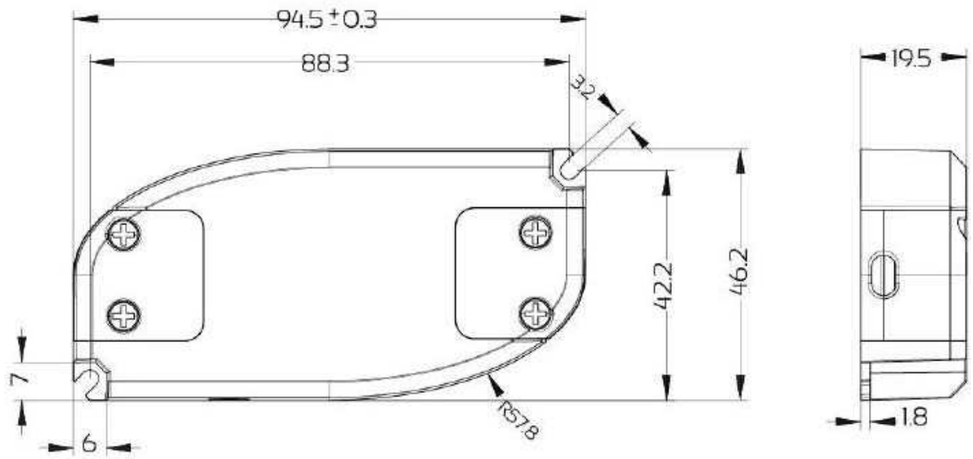
Technical Data

- Low Profile Constant Voltage Driver
- AC input: 200-240VAC
- Flicker Free
- Efficiency up to 85%
- Protections: short circuit/ over loading/ over current
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
ECP8-12VL-1	12V	0-8W	0.66A	>0.50	45°C	85°C	94.5x46.2x19.5mm
ECP8-24VL-1	24V	0-8W	0.33A	>0.50	45°C	85°C	94.5x46.2x19.5mm

Regular & Low Profile LED Power Supply

ECP15-VF-1

CV Version

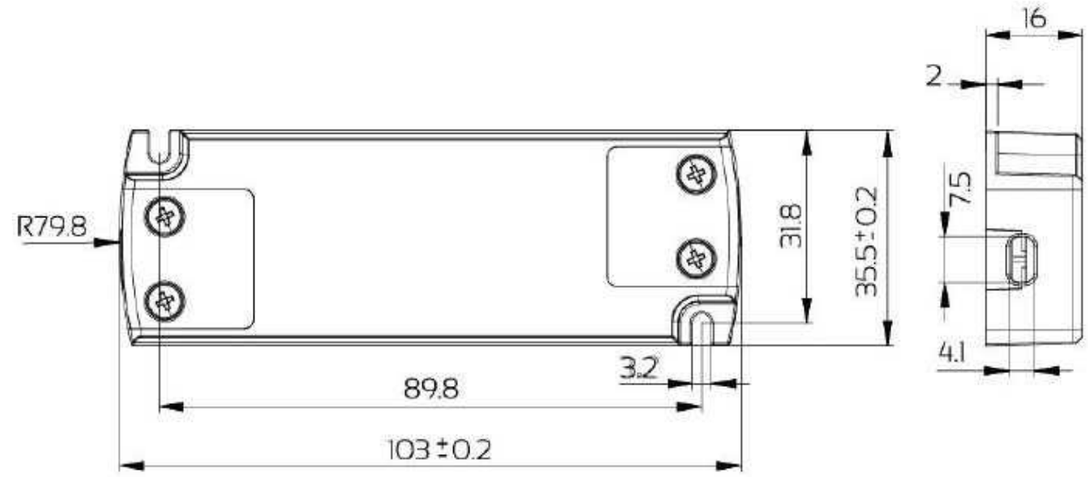
Technical Data

- Low Profile Constant Voltage Driver
- AC input: 200-240VAC
- Flicker Free
- Efficiency up to 82%
- Protections: short circuit/ over loading/ over current
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
ECP15-12VF-1	12V	0-15W	1.25A	>0.50	45°C	85°C	103x35.5x16mm
ECP15-24VF-1	24V	0-15W	0.625A	>0.50	45°C	85°C	103x35.5x16mm

ECP30-VF-3

CV Version

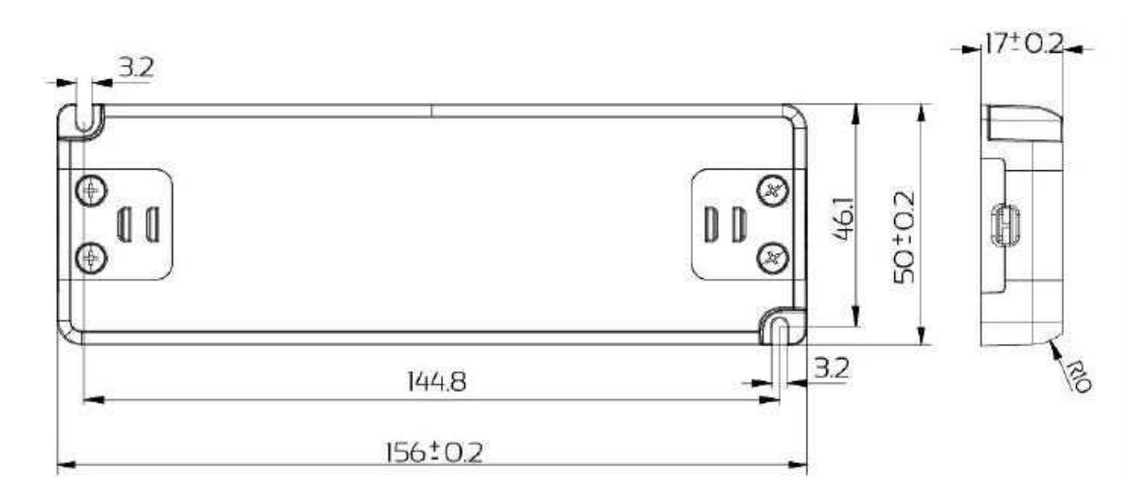
Technical Data

- Low Profile Constant Voltage Driver
- AC input: 200-240VAC
- Built in PFC Function, Flicker Free
- Efficiency up to 85%
- Protections: short circuit/ over loading/ over current
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
ECP30-12VF-3	12V	0-30W	2.5A	>0.90	45°C	85°C	156x50x17mm
ECP30-24VF-3	24V	0-30W	1.25A	>0.90	45°C	85°C	156x50x17mm

ECP50-VF-1

CV Version

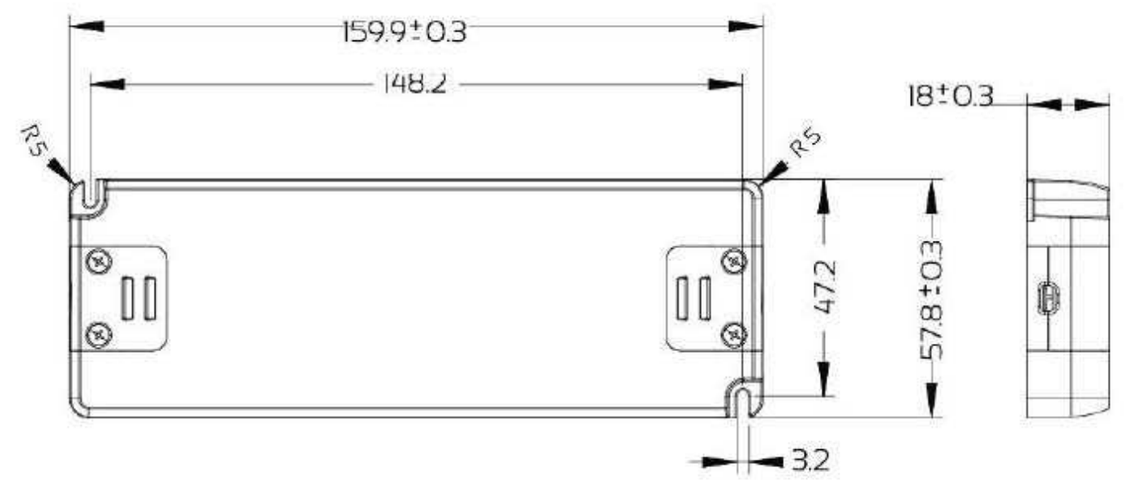
Technical Data

- Low Profile Constant Voltage Driver
- AC input: 200-240VAC
- Built in PFC Function, Flicker Free
- Efficiency up to 85%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
ECP50-12VF-1	12V	0-50W	4.16A	>0.90	45°C	85°C	159.9x57.8x18mm
ECP50-24VF-1	24V	0-50W	2.08A	>0.90	45°C	85°C	159.9x57.8x18mm

ECP75-VL-E

CV Version

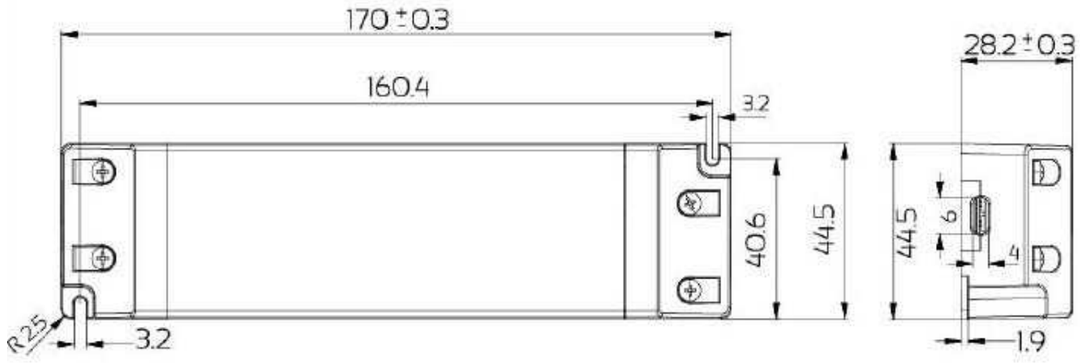
Technical Data

- Low Profile Constant Voltage Driver
- AC input: 200-240VAC
- Built in PFC Function, Flicker Free
- Efficiency up to 85%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
ECP75-12VL-E	12V	0-75W	6.25A	>0.90	45°C	85°C	170x44.5x28.2mm
ECP75-24VL-E	24V	0-75W	3.125A	>0.90	45°C	85°C	170x44.5x28.2mm

ECP100-VL-E

CV Version

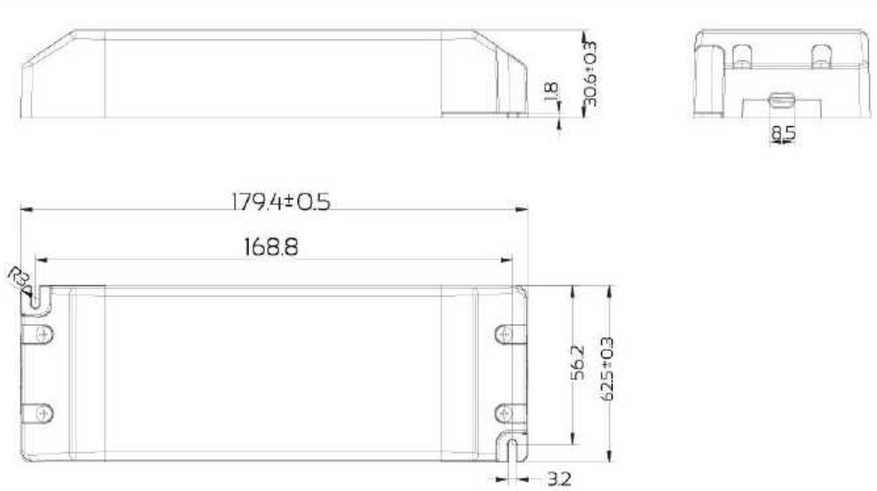
Technical Data

- Low Profile Constant Voltage Driver
- AC input: 200-240VAC
- Built in PFC Function, Flicker Free
- Efficiency up to 88%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
ECP100-12VL-E	12V	0-100W	8.33A	>0.90	45°C	85°C	179.4x62.5x30.6mm
ECP100-24VL-E	24V	0-100W	4.16A	>0.90	45°C	85°C	179.4x62.5x30.6mm

ECP150-VL

CV Version

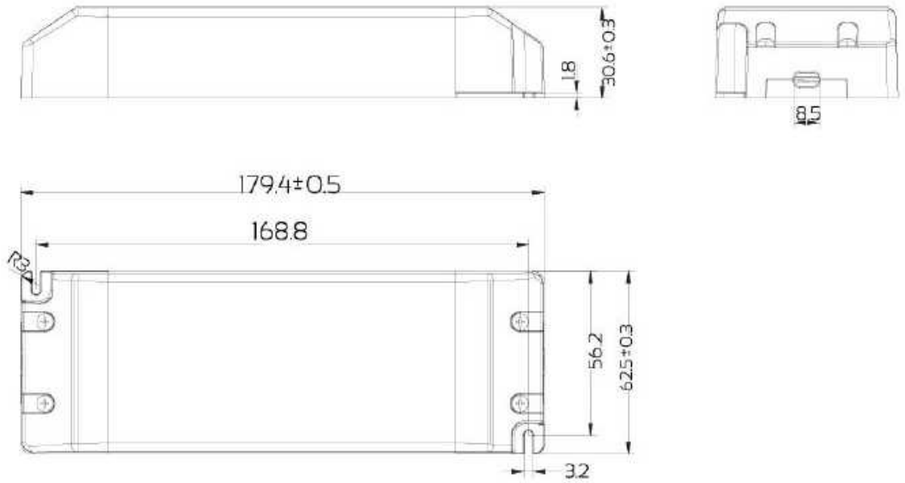
Technical Data

- Low Profile Constant Voltage Driver
- AC input: 200-240VAC
- Built in PFC Function, Flicker Free
- Efficiency up to 90%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20 110

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
ECP150-12VL	12V	0-150W	12.5A	>0.90	45°C	85°C	179.4x62.5x30.6mm
ECP150-24VL	24V	0-150W	6.25A	>0.90	45°C	85°C	179.4x62.5x30.6mm

ECP200-VL

CV Version

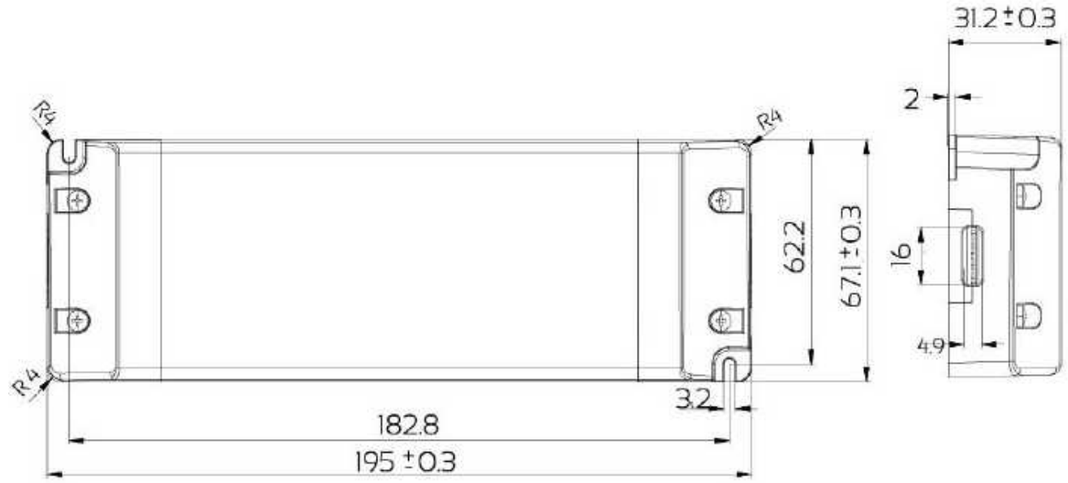
Technical Data

- Low Profile Constant Voltage Driver
- AC input: 200-240VAC
- Built in PFC Function, Flicker Free
- Efficiency up to 84%
- Protections: short circuit/ over loading/ over current/ over temperature
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP20 110

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
ECP200-12VL	12V	0-200W	16.66A	>0.90	45°C	85°C	195x67.1x31.2mm
ECP200-24VL	24V	0-200W	8.33A	>0.90	45°C	80°C	195x67.1x31.2mm

Regular & Low Profile LED Power Supply

ECP4-ILP

CC Version

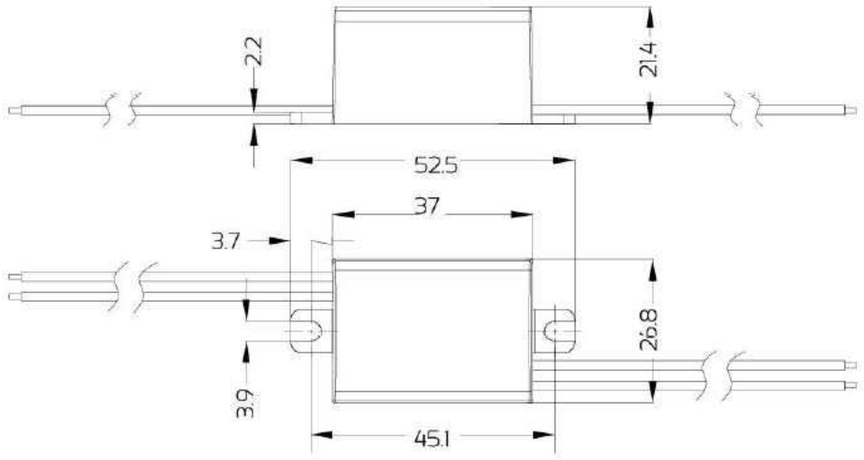
CE SELV IP66 M M 110

Technical Data

- Constant Current Driver
- AC input: 200-240VAC
- Flicker Free
- Efficiency up to 78%
- Protections: short circuit/ over loading/ over current
- Full protection plastic housing easy installation
- Cooling by free air convection
- Suitable for profile lighting and lightboxes

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Current	Load	Max output Voltage	PF	Ta	Tc	L x W x H
ECP4-350ILP	350mA	1.05-4W	3-12V	>0.40	45°C	85°C	52.5x26.8x21.4mm
ECP4-500ILP	500mA	1.5-4W	3-9.5V	>0.40	45°C	85°C	52.5x26.8x21.4mm
ECP4-700ILP	700mA	2.1-4W	3-6V	>0.40	45°C	85°C	52.5x26.8x21.4mm

NOTES

IP67 Regular LED Power Supply

• Constant Voltage

Waterproof

Ecopac Waterproof LED Power Supply is a perfect solution for:

• Outdoor Lighting
• Pool Areas
• Bathrooms
• Moisture Sensitive Areas
• High Level Humidity Areas

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EPE100-VLP
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EPE200-VLP
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EPE320-VLP
Page 92

EPV-24

CV Version

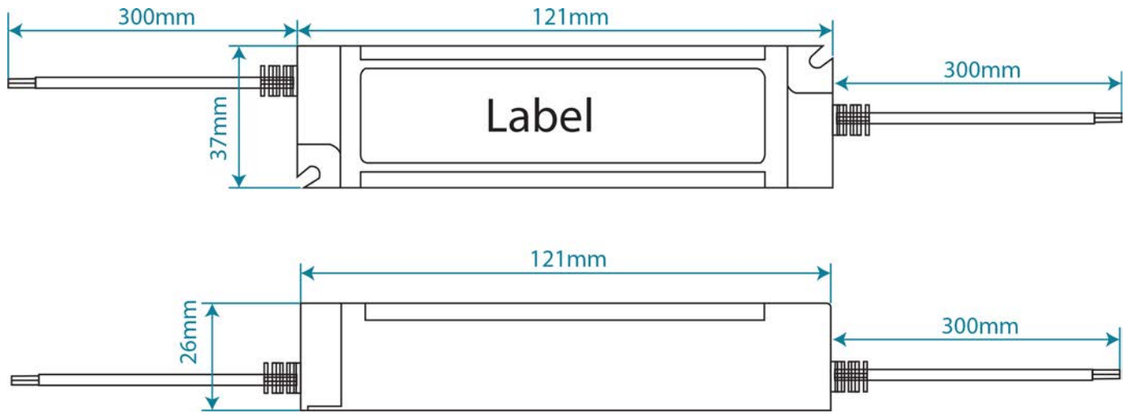
Technical Data

- Output constant voltage
- High efficiency up to 82%
- Protections: Short circuit/ over loading/ over temperature/ over Voltage
- Cooling by free air convection
- IP67 design for outdoor installation

Safety According to EN61347-1, EN61347-2-13, EN60598-1, EN60598-2-6, EN55015, EN61000-3-2, Class C EN61000-3-3, EN61547, EN61000-4-2, EN61000-4-5

SELV IP67

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
EPV-24-12	12V	0-24W	2A	>0.50	-10°C	40°C	121x37x26mm
EPV-24-12	24V	0-24W	1A	>0.50	-10°C	40°C	121x37x26mm

EPV-40

CV Version

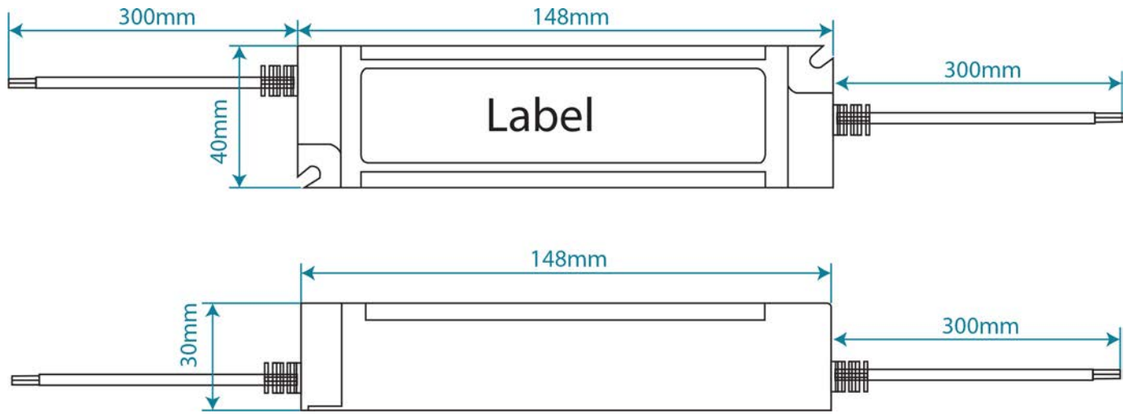
Technical Data

- Output constant voltage
- High efficiency up to 83%
- Power Factor Corection >0.9
- Protections: Short circuit/ over loading/ over temperature/ over Voltage
- Cooling by free air convection
- IP67 design for outdoor installation

Safety According to EN61347-1, EN61347-2-13, EN60598-1, EN60598-2-6, EN55015, EN61000-3-2, Class C EN61000-3-3, EN61547, EN61000-4-2, EN61000-4-5

SELV IP67

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
EPV-40-12	12V	0-40W	3.33A	>0.90	-10°C	40°C	148x40x30xmm
EPV-40-24	24V	0-40W	1.66A	>0.90	-10°C	40°C	148x40x30xmm

EPV-60

CV Version

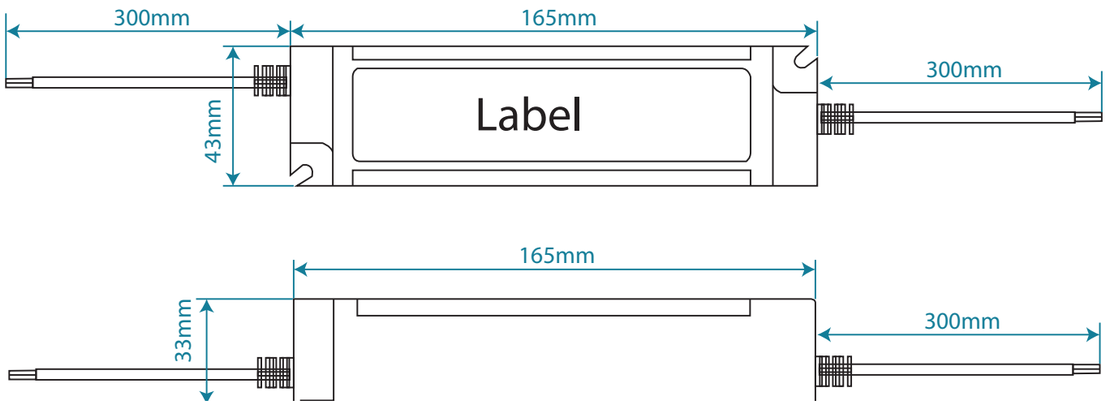
Technical Data

- Output constant voltage
- High efficiency up to 85%
- Power Factor Corection >0.9
- Protections: Short circuit/ over loading/ over temperature/ over Voltage
- Cooling by free air convection
- IP67 design for outdoor installation

Safety According to EN61347-1, EN61347-2-13, EN60598-1, EN60598-2-6, EN55015, EN61000-3-2, Class C EN61000-3-3, EN61547, EN61000-4-2, EN61000-4-5

SELV IP67

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
EPV-60-12	12V	0-60W	5A	>0.90	-10°C	40°C	165x43x33mm
EPV-60-12	24V	0-60W	2.5A	>0.90	-10°C	40°C	165x43x33mm

IP67 Regular LED Power Supply

EPV-100

CV Version

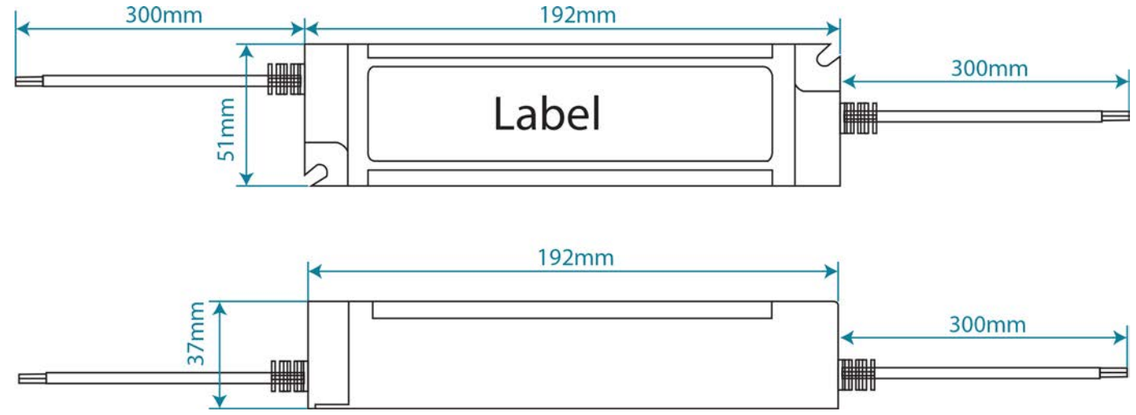
Technical Data

- Output constant voltage
- High efficiency up to 85%
- Power Factor Corection >0.9
- Protections: Short circuit/ over loading/ over temperature/ over Voltage
- Cooling by free air convection
- IP67 design for outdoor installation

Safety According to EN61347-1, EN61347-2-13, EN60598-1, EN60598-2-6, EN55015, EN61000-3-2, Class C EN61000-3-3, EN61547, EN61000-4-2, EN61000-4-5

SELV IP67

Dimension in mm



Characteristics

Rated input voltage: AC200-240V 50 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Min	Max	L x W x H
EPV-100-12	12V	0-100W	8.33A	>0.90	-10°C	40°C	192x51x37mm
EPV-100-24	24V	0-100W	4.16A	>0.90	-10°C	40°C	192x51x37mm

EPE100-VLP

CV Version

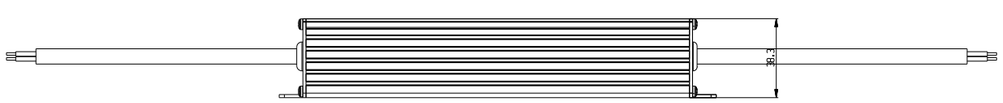
Technical Data

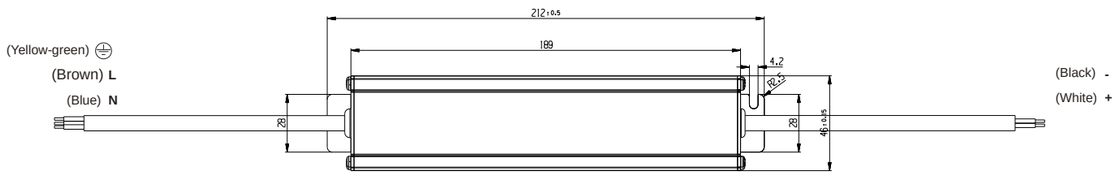
- Constant Voltage Driver
- Flicker free
- AC input: 200-277VAC
- Built in PFC Function
- Efficiency up to 85%
- Protections: short circuit/ over loading/ over current/ over temperature
- Metal housing with class I design
- Cooling by free air convection
- Suitable for led lighting and moving signs

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP67

Dimension in mm





Characteristics

Rated input voltage: AC200-277V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
EPE100-12VLP	12V	0-100W	8.33A	>0.90	-40°C	60°C	212x46x38.3mm
EPE100-24VLP	24V	0-100W	4.17A	>0.90	-40°C	60°C	212x46x38.3mm

EPE200-VLP

CV Version

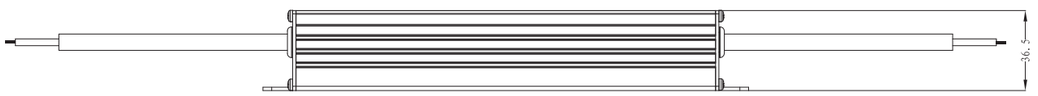
Technical Data

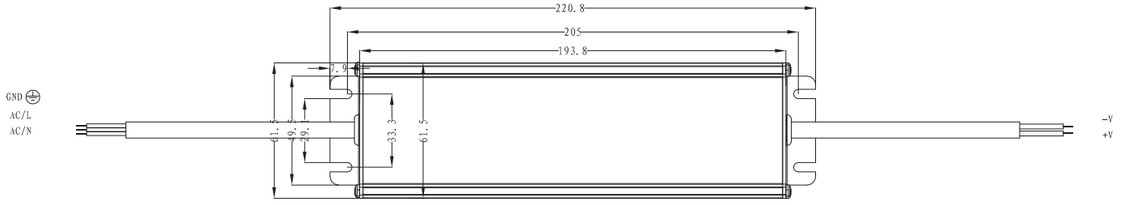
- Constant Voltage Driver
- Flicker free
- AC input: 200-277VAC
- Built in PFC Function
- Efficiency up to 90%
- Protections: short circuit/ over loading/ over current/ over temperature
- Metal housing with class I design
- Cooling by free air convection
- Suitable for led lighting and moving signs

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

SELV IP67

Dimension in mm





Characteristics

Rated input voltage: AC200-277V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
EPE200-12VLP	12V	0-200W	16.7A	>0.90	-40°C	60°C	220.8x61.5x36.5mm
EPE200-24VLP	24V	0-200W	8.33A	>0.90	-40°C	60°C	220.8x61.5x36.5mm

IP67 Regular LED Power Supply

EPE320-VLP

CV Version

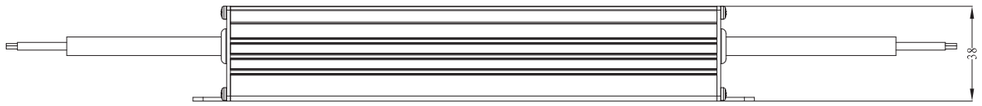
SELV IP67

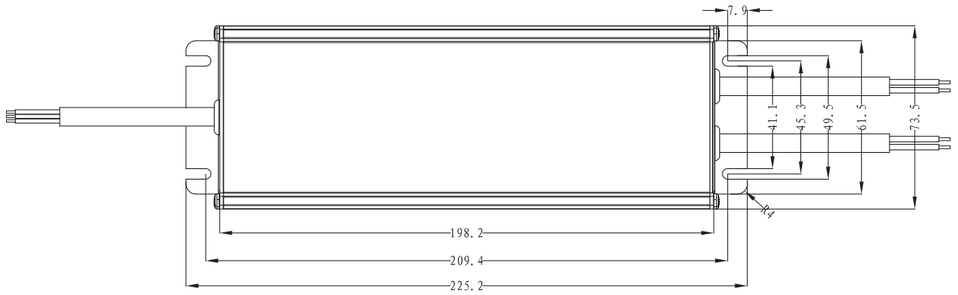
Technical Data

- Constant Voltage Driver
- Flicker free
- AC input: 200-277VAC
- Built in PFC Function
- Efficiency up to 90%
- Protections: short circuit/ over loading/ over current/ over temperature
- Metal housing with class I design
- Cooling by free air convection
- Suitable for led lighting and moving signs

Safety According to EN613471, EN61347-2-13, EN61000-3-2; EN61000-3-3; EN61547, EN62493-2010, EN1194-2012

Dimension in mm



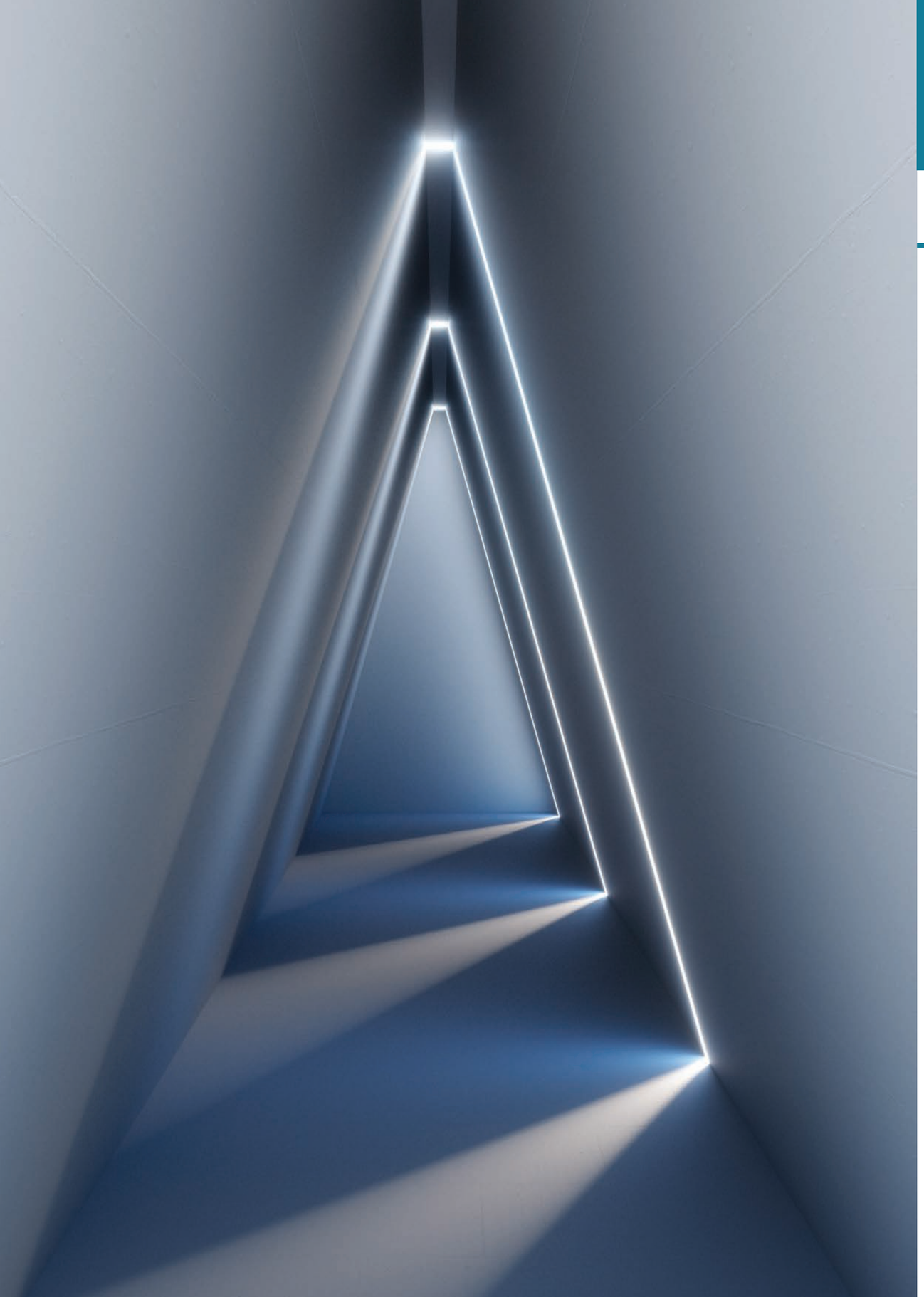


Characteristics

Rated input voltage: AC200-277V 50/60 Hz (power factor measured at AC240V and fullload)

Model No.	Constant output Voltage	Load	Max output Current	PF	Ta	Tc	L x W x H
EPE320-12VLP	12V	0-320W	25A	>0.90	-40°C	50°C	225.2x73.5x38mm
EPE320-24VLP	24V	0-320W	13.4A	>0.90	-40°C	50°C	225.2x73.5x38mm

NOTES



Power Supply Accessories

- Triac (Mains)
- 1-10V
- DALI
- Push Dim

• Interfaces

• Dimmers

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DALI-801-8A
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COMING SOON

EcoDim DALI Dimmers

EcoDim-Triac

Main Dimmable Version

Technical Data

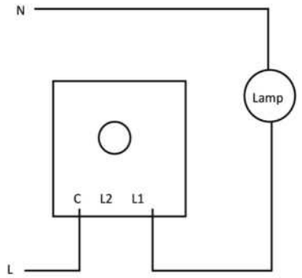
- 1 Gang 2 Way 60-400W Zero Cross Rotary Dimmer
- Leading edge phase control
- For use with resistive and inductive loads
- Integrated over-temperature protection fuse
- Module case ultrasonically sealed to reduce dimmer buzzing
- Smooth dimming operation from 0-100% light output
- May be fitted to most dimmer plates
- One or two way switching

Complies with Safety Standard for dimmer switches EN60669-2-1:2000, EMC Compliance – EN550155

Switching

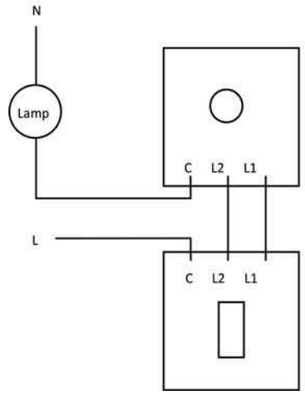
1-Way Switching

Each lighting circuit is controlled by one switch. Connect the incoming Live to the terminal marked C. Connect either L1 or L2 to the live feed to the lighting circuit.
For 1 way switching either the L1 or L2 terminal connection is not used



2-Way Switching

2-Way lighting circuits have two switches controlling the same lights from two different locations. This arrangement is commonly used at the top and bottom of staircases or at the entry and exit doors to a room. Only one standard plate switch may be replaced with a dimmer switch for 2-way switching applications or the lights will flicker on and off. See Figure below for a typical 2-way circuit. Remove one of the existing switches taking note of the wiring of the switch and the terminal markings. The wires connected to the COMMON terminal of the plate switch should be connected to the C terminal of the dimmer switch. The wires connected to the other two terminals of the plate switch should be connected either way round to terminals L1 & L2 of the dimmer switch.



Characteristics

1 Gang 2 Way 60-400W Zero Cross Rotary Dimmer

Model No.	Input Voltage Type	Input Voltage (Min)	Input Voltage (Max)	L x W x H
EcoDim Triac	AC	220V	240V	62x26x46.2mm

EcoDim-1-10V

1-10V Dimmable Version

Technical Data

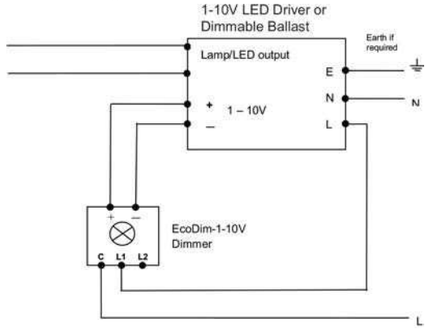
- 1-10V Dimmer suitable for control of dimmable 1-10V LED drivers
- Intergrated over temperature protection fuse
- Module case ultrasonically sealed to reduce dimmer buzzing
- Fits a plaster depth (16mm) mounting box
- One or two way switching

Complies with the latest Electrical Safety standards for dimmer switches EN60669-2-1:2000, EMC compliance – EN55015

Switching

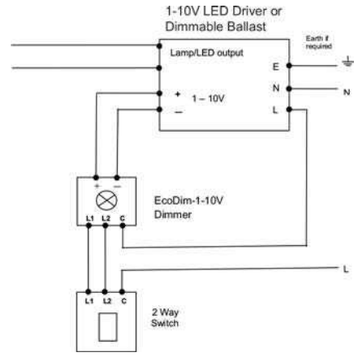
1-Way Switching

In 1-way lighting circuits each light is controlled by 1 switch. Connect the two wires either way round, to the C terminal and either L1 or L2. One of the L terminals is not used in 1-way switching.



2-Way Switching

2-Way lighting circuits have two switches controlling the same lights from two different locations. This arrangement is commonly used at the top and bottom of staircases or at the entry and exit doors to a room. One standard plate switch is used with the dimmer switch for 2-way switching applications. See below for a typical 2-way circuit.



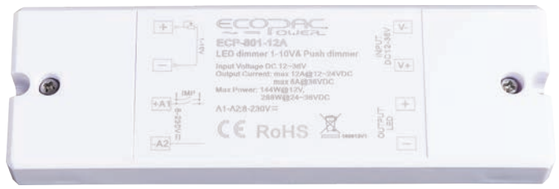
Characteristics

1-10V Dimmer suitable for control of dimmable 1-10V LED drivers

Model No.	Input Voltage Type	Input Voltage (Min)	Input Voltage (Max)	L x W x H
EcoDim-1-10V	DC	1V	10V	62.2x26x46.2mm

ECP-801-12A

Dimmer Interface

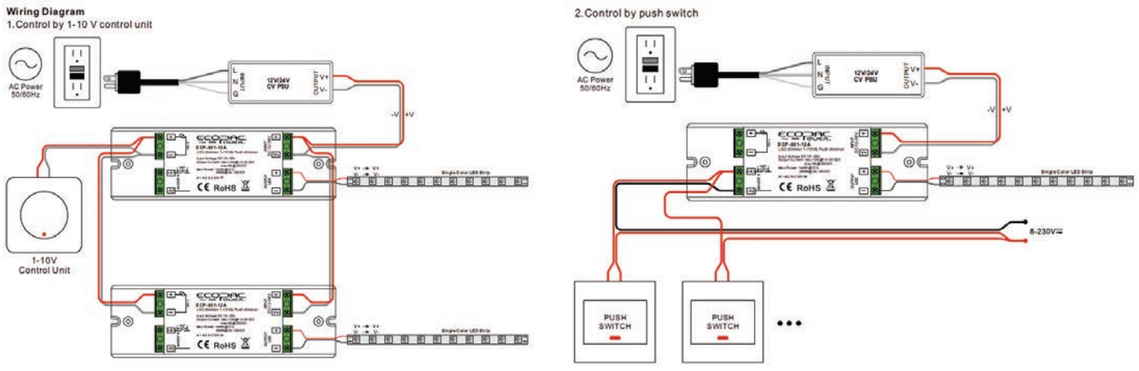


Technical Data

- Push Dimmer
- Directly Support Both AC and DC Input Push Switches
- 0/1-10V Dimmer Function While Controlled by 0/1-10V Signal
- With 1 Channel 1-10V signal Input, 1 Channel PWM Output
- 1 Channel, 10A/CH Output
- IP20 design

CE

Wiring Diagrams



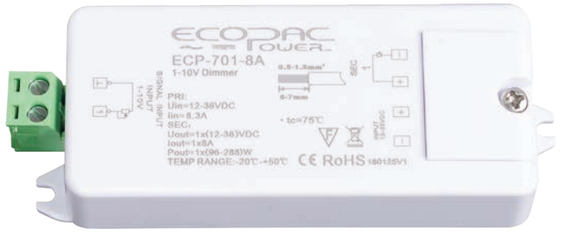
Characteristics

This product supports both 1-10V control and push dimmer function.

Model No.	Input Voltage	Output Current	Output Power	Remarks	L x W x H
ECP-801-12A	12-36VDC	1x12A@12-24V 1x8A@36V	144W@12V 288W@24-36V	Constant voltage	145x46.5x16mm

ECP-701-8A

Dimmer Interface

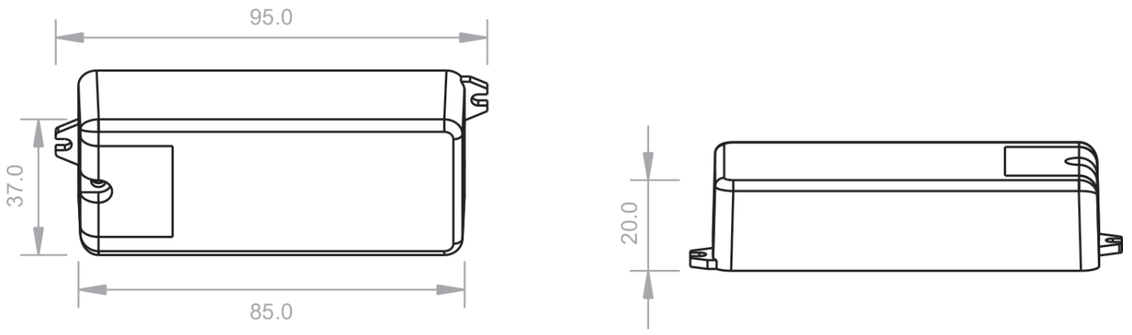


Technical Data

- With 1 Channel 0/1-10V signal Input, 1 Channel PWM Output
- Analog dim driver, receive standard 1-10V dim signal input
- 0-100% dimming range via logarithmi characteristic perfect for human's vision
- 256 levels of Grey scales, smoothly without any flash
- To work with power repeater to expand output unlimitedly
- Can coordinate with 1-10 regulator or 1-10V dimmer to do analog dimming ,smooth dimming curve, be in direct proportion to voltage curve of regular

CE

Dimension in mm



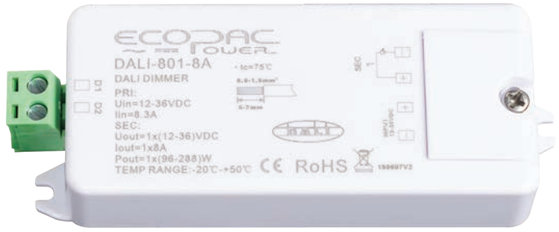
Characteristics

0-100% dimming range via logarithmic characteristic, perfect for human's vision

Model No.	Input Voltage	Current Load (Max)	Output Power (Max)	Ta	Tc	L x W x H
ECP-701-8A	12-36V	8A	96-288W	-20°C	75°C	85x37x20mm

DALI-801-8A

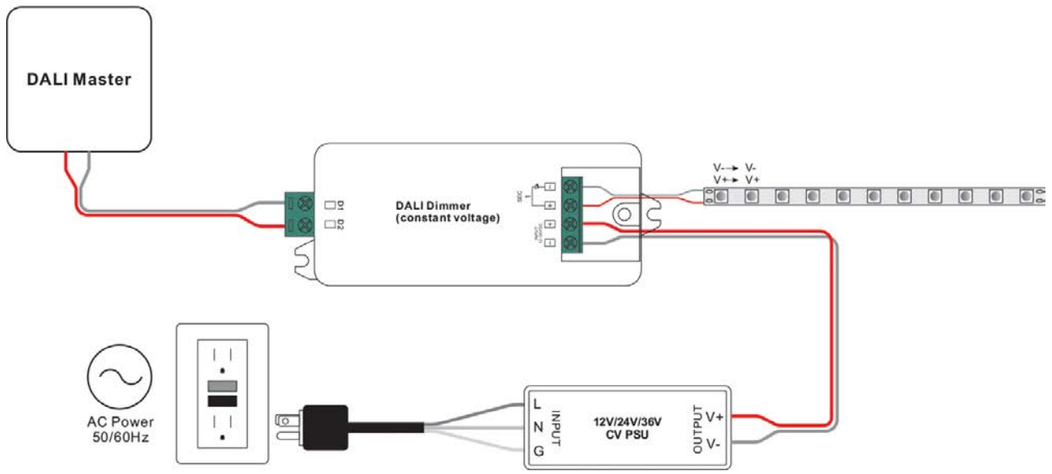
Dimmer Interface



Technical Data

- Constant Voltage DALI LED dimmer
- Comply to DALI standard protocol IEC 62386-102,IEC 62386-207 and in compliance with DALI products from other international incorporation
- 1 DALI address input, 1 channel PWM output
- 0%-100% dimming range via logarithmic characteristics

Wiring Diagram



Characteristics

Comply to DALI standard protocol IEC62386-102,IEC 62386-207 and in compliance with DALI products

Model No.	Input Voltage Type	Input Voltage	Input Voltage (Max)	Output	L x W x H
DALI-801-8A	DC	12-36VDC	8A	96-288W	37x95x20.5mm

NOTES

Worldwide Input Voltage

Important Symbols

CE	CE mark of conformity
FC	Federal Communications Commission
c UL us LISTED	US and Canada UL approved
c UL us	UL mark for Canada and US
C-Tick	C-Tick
SELV	International mark for transformers of converters (safety extra-low voltage)

	International mark for independent converted
	International mark for protection II
F	Flammable mark
110	The surface temperature of Transformer/ ballast will be not more than 110°C on the condition of overload or short circuit
M M	The transformer complies with European Regulation, in general situation, cound mount on or in furniture and cabinet

RoHS Compliance FAQ

What is RoHS?

RoHS is the acronym for Restriction of Hazardous Substances. RoHS, also known as Directive 2002/95/EC, originated in the European Union and restricts the use of specific hazardous materials found in electrical and electronic products. All applicable products in the EU market after July 1, 2006 must pass RoHS compliance.

What are the restricted materials mandated under RoHS?

The substances banned under RoHS are lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (CrVI), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

Why is RoHS compliance important?

The restricted materials are hazardous to the environment and pollute landfills; the materials are dangerous in terms of occupational exposure during manufacturing and recycling.

What is PFC?

PFC stands for Power Factor Correction. The purpose of PFC is to improve the ratio of apparent power and real power.

The power factor is only 0.4~0.6 in non-PFC models. In PFC models, the power factor can reach above 0.95.

The calculation formulas are as below:

Apparent Power = Input Voltage x Input Current (VA)
Real Power = Input Voltage x Input Current x Power Factor (W)

From the environment friendly point, the electric power plant needs to generate a power which is higher than apparent power in order to steadily provide electricity to the market. The real usage of electricity should be defined by real power.

Assuming the power factor is 0.5, the power plant needs to produce more than 2VA to satisfy 1W real power. On the contrary, if the power factor is 0.95, the power plant only needs to generate more than 1.06VA to provide 1W real power need. It will be more efficient.

Standards

EN 50172	Requirements for emergency escape lighting systems
EN 50294	Measurement method of total input power of ballast-lamp circuits
EN 55015; CISPR 15	Radio disturbances < 30 MHz
EN 55015 : 2006 + A1 : 2007	Radio disturbances 0.15 to 300 MHz
EN 60598-1; IEC 60598-1	General requirements for luminaires
EN 60598-2-22; IEC 60598-2-22	Particular requirements in respect of luminaires for emergency lighting
EN 60921; IEC 60921	Ballasts for tubular fluorescent lamps – performance requirements
EN 60923; IEC 60923	Ballasts for discharge lamps – performance requirements
EN 60925; IEC 60925	DC supplied electronic ballasts for tubular fluorescent lamps – performance requirements
EN 60927; IEC 60927	Starting devices – performance requirements
EN 60929; IEC 60929	AC supplied electronic ballasts for tubular fluorescent lamps – performance requirements
EN 61000-3-2; IEC 61000-3-2	Harmonic current emissions
EN 61000-3-3; IEC 61000-3-3	Voltage fluctuations and flicker in low-voltage supply systems
EN 61047; IEC 61047	DC or AC supplied electronic step-down converters for filament lamps – performance requirements
EN 61347-1; IEC 61347-1	General and safety requirements for lamp control gear
EN 61347-2-1; IEC 61347-2-1	Particular requirements for starting devices
EN 61347-2-2; IEC 61347-2-2	Particular requirements for DC or AC supplied electronic step-down converters for filament lamps
EN 61347-2-3; IEC 61347-2-3	Particular requirements for AC supplied electronic ballasts for fluorescent lamps
EN 61347-2-4; IEC 61347-2-4	Particular requirements for DC supplied electronic ballasts for general lighting
EN 61347-2-7; IEC 61347-2-7	Particular requirements for DC supplied electronic ballasts for emergency lighting
EN 61347-2-8; IEC 61347-2-8	Particular requirements for ballasts for fluorescent lamps
EN 61347-2-9; IEC 61347-2-9	Particular requirements for ballasts for discharge lamps
EN 61347-2-11; IEC 61347-2-11	Particular requirements in respect of electronic modules for luminaires
EN 61347-2-13; IEC 61347-2-13	Particular requirements for electronic control gear for LED modules
EN 61547; IEC 61547	EMC immunity requirements
EN 61558; IEC 61558	Safety of power transformers
EN 62031; IEC 62031	Safety specifications for LED modules
EN 62034; IEC 62034	Automatic test system for battery-powered emergency escape lighting
EN 62384; IEC 62384	DC or AC supplied electronic control gear for LED modules – performance requirements
EN 62386; IEC 62386	Digital addressable lighting interface
EN 62471; IEC 62471	Photobiological safety of lamps and lamp systems
acc. to VDE 0108 / EN 50172	Suitable for emergency lighting installations
IEC 60068-2-64 Fh	Environmental testing – test Fh: Vibration, broad-band random (digital control)
IEC 60068-2-29 Eb	Basic environmental testing procedures – test Eb: Bump
IEC 60068-2-30 Db	Basic environmental testing procedures – test Db: Damp heat, cyclic (12+12-hour cycle)
UL 935	Fluorescent Lamp Ballasts
ANSI C62.41 Category A	Recommended practice on surge voltage in low-voltage AC power circuits
	ANSI C82.11 High-frequency fluorescent-lamp ballasts
ANSI C82.11	High-Frequency Fluorescent Lamp Ballasts

Glossary of Terms

Ambient Temperature	The temparature of an environment in which the power supply operates. Room ambient temperature is typically 25 degrees C. Ambient is defined as all around, surrounding or encompassing.
Autoranging Input	An Input voltage sensing circuit in the power supply that automatically switches to the appropriate input voltage (90-132 VAC or 180-264 VAC)
Burn-in	In power supplies, a period during which a supply is energized and loaded to peak output, with the intent of finding potentially weak components. Typical burn-in tests can include temperature cycling, input cycling and/or load cycling.
Constant Current Power Supply	A power supply that regulates its output current, within specified limits, against changes in line, load, ambient temperature and time.
Constant Voltage Power Supply	A power supply that regulates its output voltage, within specified limits, against changes in line, load, ambient temperature and time.
Cross-Regulation	In a multiple output power supply, the percent voltage change at one output caused by the load change on another output.
Crowbar	An overvoltage protection circuit which rapidly places a low resistance shunt across the power supply output terminals if a predetermined voltage is exceeded. Crowbar typically used for linear power supplies for their fail with a high output voltage. Modern swith mode power supplies fail with low output voltages making a “crowbar circuit” unnecessary.
Derating	The specified reduction in an operating parameter to improve reliability. Generally for power supplies, it is the reduction in output power at elevated temperatures.
Drift	The change in DC output as a function of time at constant line voltage, load and ambient temperature. Normally specified for an eight hour period after a half hour warm-up.
Efficiency	Ratio of output power to input power, generally measured at full load with nominal line conditions.
EMI (Electromagnetic Interference)	Unwanted energy, generally emitted from switching power supplies, which may be conducted or radiated.
Foldback Current Limiting	A power supply output protection circuit whereby the output current decreased with increasing overload, reaching a minimum at short circuit. This minimizes internal power dissipation under overload conditions. Foldback current limiting is normally used with linear regulators and is not necessary with switching regulators.
Hi-Pot (High Potential) Test	A test to determine if the breakdown voltage of a transformer or power supply exceeds the minimum requirement. It is performed by applying a high voltage between the two isolated test points.
Hold-up Time	The time during which a power supply’s output voltage remains within specification following the loss of input power.
Impedance	The ratio of voltage to current in AC circuits, containing both resistance and reactance terms, usually expressed as ohms.
Input (AC)	The sine-wave input voltage normally specified in volts RMS. The minimum and maximum voltage and frequency limits must be specified. An input waveform that is not sinusoidal, such as a square wave or distorted wave shape from a UPS, can affect power supply operation and must be defined. Consult the factory for information on derating of standard catalog power supplies for voltage, frequency and wave shape variations beyond those specified in catalog.
Input (DC)	Normally specified in volts, the minimum and maximum voltage limits must be specified. Consult the factory for information on the derating of standard catalog power supplies at input voltage outside the range specified in the catalog.
Inrush Current	The peak instantaneous input current drawn by a power supply at turn-on.
Isolation	The electrical separation between input and output of a power supply by means of the power transformer. The isolation resistance (normally in megaohms) and the isolation spacing employed throughout the power supply.
Leakage Current	The AC or DC current flowing from input to output and/or chassis of an isolated power supply at specified voltage.

Glossary of Terms

Line Regulation — The change in value of DC output voltage resulting from a change in AC input voltage over a specified range, or from low line high line or from high line to low line. Normally specified as the + or - change from the nominal DC output voltage.

Load Regulation — The change in value of DC output voltage resulting from a change in load resistance from open circuit to a value that yields maximum rated output current, or from full load to open circuit.

Local Sense — Using power supply output voltage terminals as the sense points to provide feedback to the voltage regulator.

Marging — The capability to temporarily change the output by a specified percentage of nominal for system testing.

Minimum Loading — Minimum current required for voltages to be in specified range. Generally in multiple utput power supplies, a minimum load is required on the main output to ensure regulation of auxiliary outputs.

MTBF (Mean Time Between Failure) — The failure rate of a power supply, expressed in hours, established by the actual operation or calculation from a known standard such as MIL-HDBK-217.

Nominal Value — The stated or objective value for a quantity, such as output voltage, which may not be the actual value measured.

Output Current Limiting — An output protection feature which limits the output current to a predetermined value in order to prevent damage to the power supply or the load under overload conditions. The supply is automatically restored to normal operations following removal of the overload.

Output Voltage — The nominal value of the DC voltage at the output terminals of a power supply.

Overload Protection — Protection of the power supply and associated equipment against excessive output current, including short-circuit current. Protection circuitry is electronic with automatic recovery. Current characteristics is normally foldback type.

Overshoot — A transient change in output voltage in excess of specified output regulation limits that occur when a power supply is turned on/off, or when there is a step change in line or load.

Overvoltage Protection — A power supply feature which shuts down the supply, or crowbars or clamps the output, when its voltage exceeds a preset level.

PARD (Periodic and Random Deviation) — A term used for the sum of all ripple and noise components measured over a specified band width and stated in either peak-to-peak or RMS values.

Pi Filter — A commonly used filter at the input of a switching supply or DC/DC converter to reduce reflected ripple current. The filter usually consists of two parallel capacitors and a series inductance and is generally built into the supply.

Power Factor (input) — Ratio of true input power to the apparent power (rms voltage x rms current) in AC circuits. This power is generally considered to be wasted, but can be corrected for.

Power Signal Fail — An electronic signal generated by the power supply which warns of impending power failure.

Redundancy (N+1) — Power supplies connected in parallel operation so that if one fails, the others will continue delivering enough current to supply the maximum load. This method is used in applications where power supply failure cannot be tolarated.

Redundant Operation — The ability to connect power supplies in parallel so that if one fails, the other power supply will electronically switch on line and provide continual power to the load. The mode is used when power supply failure cannot be tolerated.

Remote Sense — Detection of output voltage at a load remote from the power supply, enabling the power supply to regulate output voltage and to compensate for voltage drop across power cables. Permits greater accuracy of regulation than local sensing.

Remote Voltage Adjustment — Adjustment of the output voltage made remotely over a limited range by a variable resistor. The location and value of this resistor depends on the type or model and could be affected by the internal voltage control. Consult the factory for detailed information and instructions.

Ripple and Noise — The magnitude of AC voltage on the output of a power supply, expressed in millivolts peak-to-peak or RMS, at a specified band width. This is the result of feed through of the rectified line frequency, internal switching transients, and other random noise.

Glossary of Terms

Shock and Vibration — A specification requirement for which a power supply is designed or tested to withstand, such as 20G shock for 11 milliseconds and 10G random vibration for 2 hours over a 2 - 2000 Hz bandwidth.

Short-circuit Protection — A feature which limits the output current of a power supply under short-circuit conditions so that the supply will not be damaged.

Soft Start — A feature that lowers the peak inrush current during power supply turn-on.

Switching Frequency — The rate at which the DC voltage is switched in a DC-DC converter or switching power supply.

Temperature Coefficient — A ratio by which the changes in power supply output voltage caused by temperature changes can be calculated. Usually output decreases as ambient temperature rises.

Temperature Range, Operating — The range of ambient or case temperatures within which a power supply may be safely operated and meet its specifications.

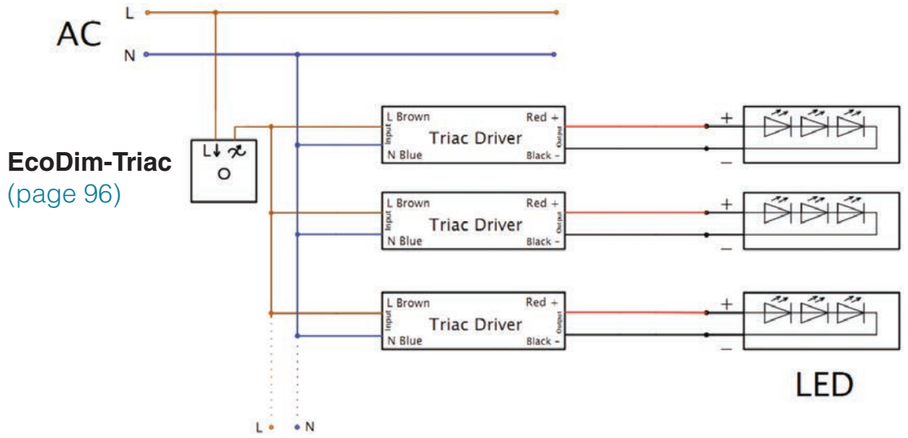
Temperature Range, Storage — The range of ambient temperatures within which power suply may be safely stored, non-operating, with no degradation in its subsequent operation.

Thermal Protection — An internal safeguard circuit in a power supply which shuts down the unit in the vent of excessive internal temperature.

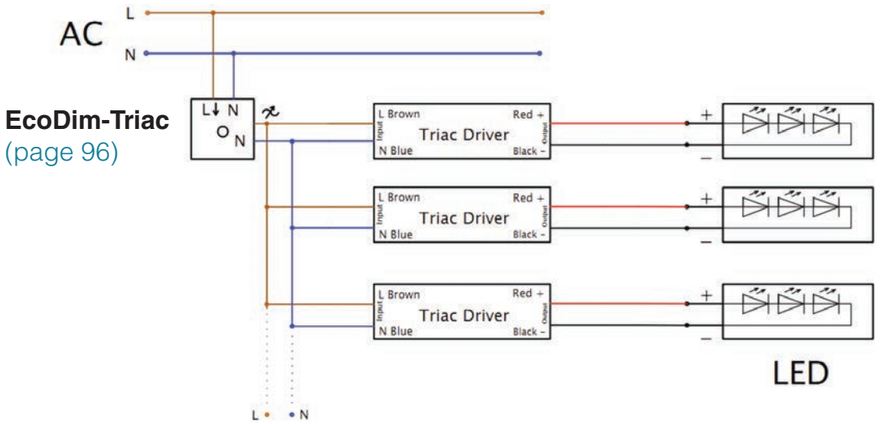
Transient Response — Time required for output voltage to return to regulated value after a step change of output current, usually specified in microseconds for a specified percentage of load change.

Universal Input — Power supply's ability to accept a wide input voltage range (90VAC to 264VAC) without the selection of input range, either manually or electronically (as in autoranging input)

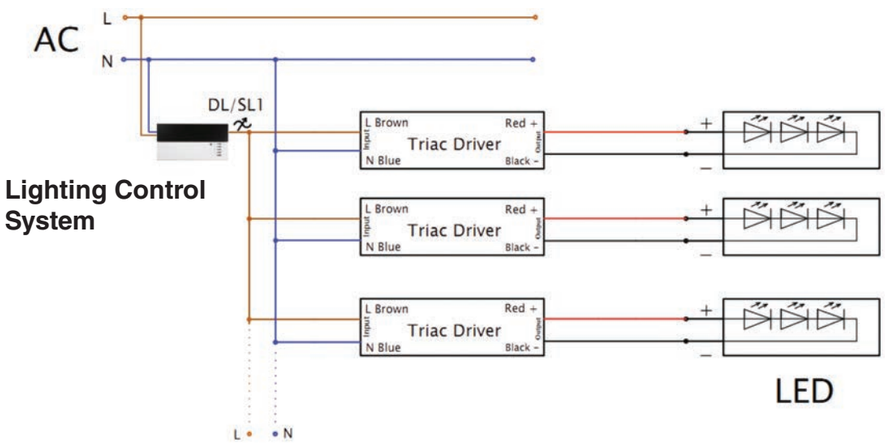
Wiring Diagram - TRIAC



EcoDim-Triac
(page 96)

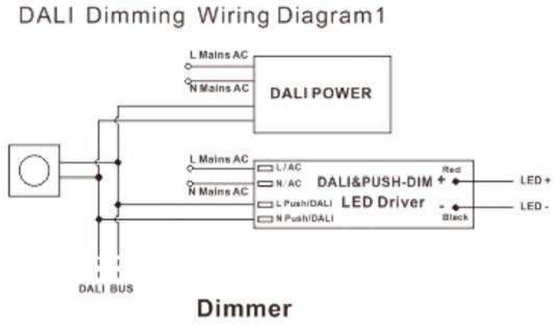


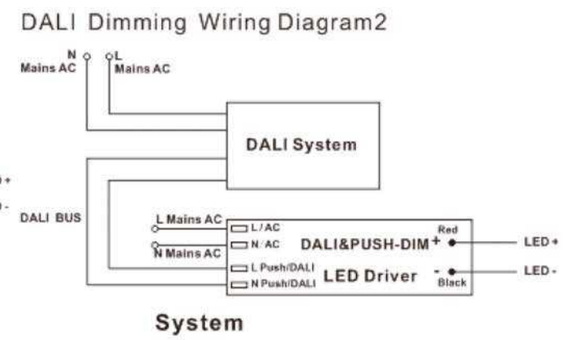
EcoDim-Triac
(page 96)

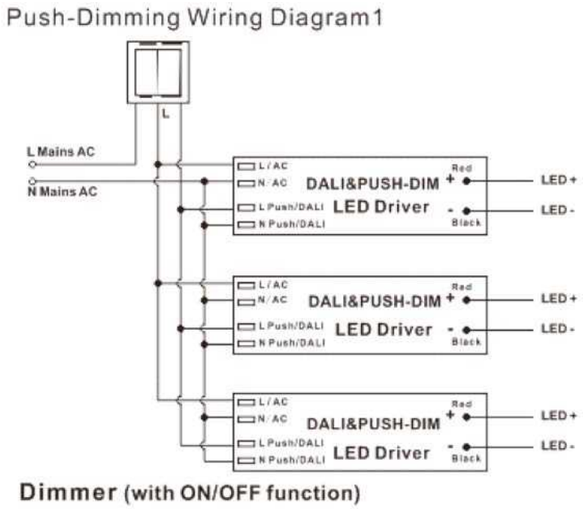


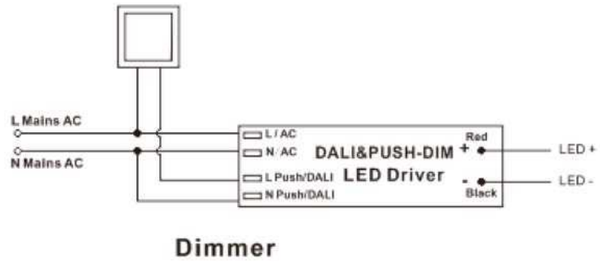
Lighting Control System

Wiring Diagram - DALI

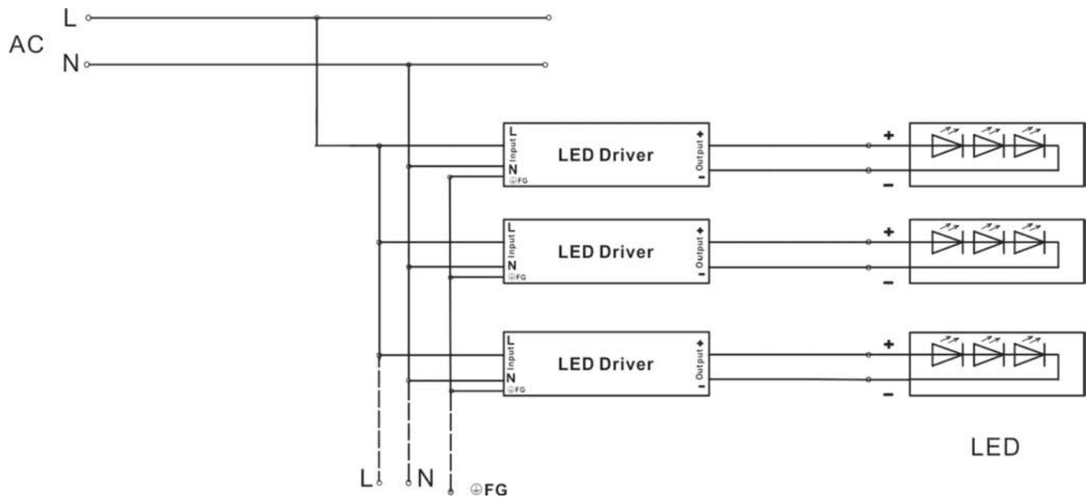








Wiring Diagram - 0/1-10V



NOTES

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