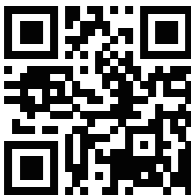


CINCON ELECTRONICS

# LED POWER SUPPLY & CONTROLLER CATALOG 2018



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# LDP15 SERIES

## 15 WATT SINGLE OUTPUT LED POWER SUPPLY

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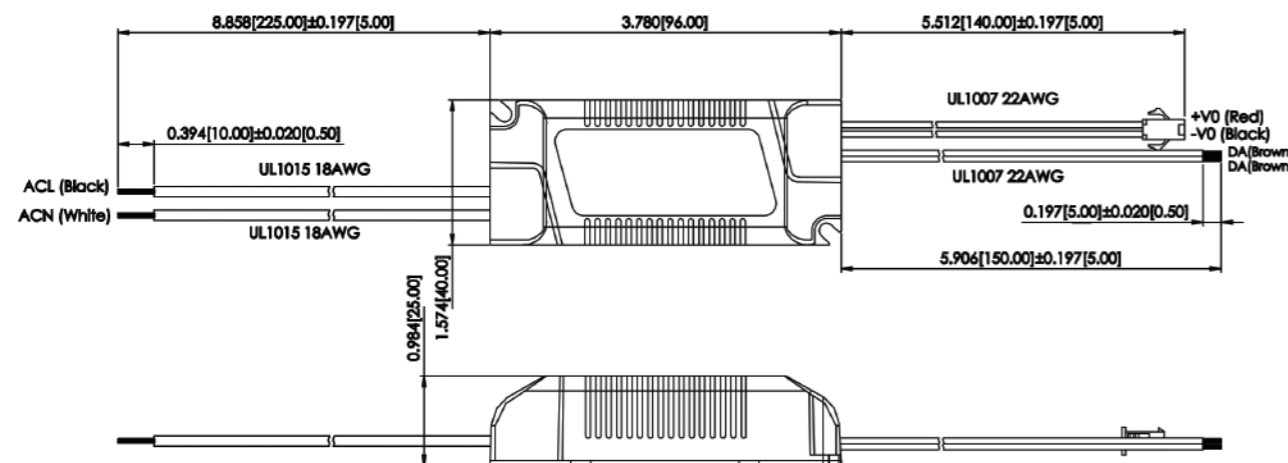
### Features

- ◆ Universal AC Input Range 90-264Vac
- ◆ Suitable for LED Lighting Applications
- ◆ Output Constant Current Control
- ◆ DALI Dimming 5-100%
- ◆ Continuous Short Circuit Protection



### Mechanical Dimensions

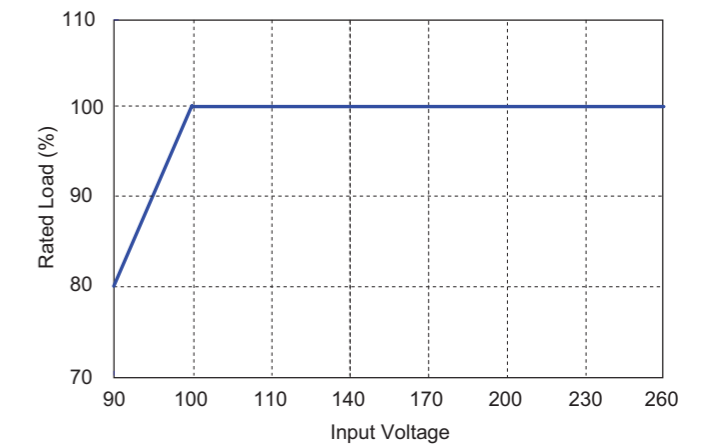
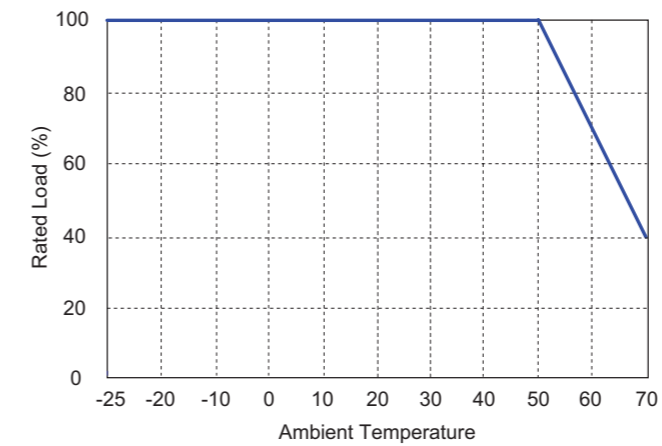
All Dimensions are in inches (mm)  
Tolerance: Inches: X.XXX±0.02  
Millimeters: X.XX±0.5



MODEL NUMBER	Input Voltage Range	Rated Output Voltage Range (CC region)	Rated Output Current (max.) (CC region)	No Load Output Voltage (max.)	Rated Output Power (max.)	Ripple and Noise (V p-p max.)	%EFF. Typ. Note1
LDP15S420-C035	90-264 Vac	18-42 Vdc	350 mA	48 Vdc	14.7 W	0.42 V	
LDP15S290-C050	90-264 Vac	18-29 Vdc	500 mA	48 Vdc	14.5 W	0.42 V	84%
LDP15S210-C070	90-264 Vac	8-21 Vdc	700 mA	26 Vdc	14.7 W	0.21 V	

Note: 1. Efficiency is measured at 29V/500mA  
2. The control gear can be connected to every type of lamp, but the total rated wattage of lamps shall not exceed the above rated output wattage.

### Derating Curve



### Specifications

All specifications are typical values tested at the condition of nominal line, full load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

AC Input Voltage	90-264Vac
Frequency	47 to 63Hz
Inrush Current	40A max @240Vac, 25°C Ta Cold Start
Leakage Current	< 0.5mA max.
Standby Power Consumption	0.5W max.

#### OUTPUT SPECIFICATIONS

Voltage Accuracy	±5% max.
Constant Current Accuracy (note 1)	±5% max.
Current Line Regulation (note 2)	±5% max.
Current Load Regulation (note 3)	±5% max.
Over Voltage Protection	TVS clamp
Short Circuit Protection	Hiccup Mode, Auto Recovery
DALI Dimming	5-100%

#### ENVIRONMENTAL CHARACTERISTICS

Operating Ambient Temperature	-25-70°C, 50°C-70°C@-3%/°C
Cooling	Natural convection
Storage Temperature, Humidity	-40-85°C, 20%-95%RH
Operating Altitude Max.	3000m above sea level
Temperature Coefficient	±0.03%/°C (0-50°C)

#### GENERAL SPECIFICATIONS

Efficiency	84% typ.
Isolation voltage, Input to output	3.00KVac.
Isolation resistance, Input to output	10 <sup>8</sup> Ω min.
Surge voltage between L-N	2KV

#### SAFETY AND EMC

Safety	EN61347-1, EN61347-2-13
EMI	EN55032/EN55015 Class B
EMS	EN61000-4-2,3,4,5,6,11
Harmonic Current	EN61000-3-2,3 Class A

#### MECHANICAL CHARACTERISTICS

Dimensions	3.780 x 1.574 x 0.984 inches (96.0 x 40.0 x 25.0 mm)
Weight	100g

#### NOTE

- 1: Current accuracy is set at nominal input voltage and full load.
- 2: Current Line regulation is measured from High Line to Low Line with full load.
- 3: Current Load regulation is measured from 75% to 100% output rated voltage max.
- 4: All specifications are typical at 230 Vac, Vo Max, full load and 25°C Ta unless other noted.

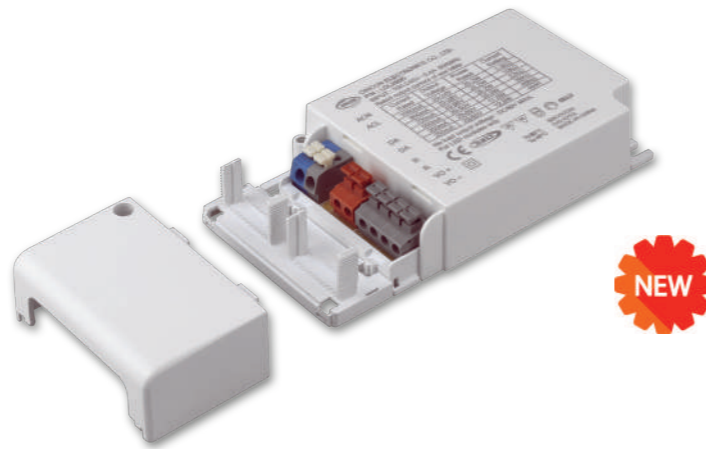
# LDL25 SERIES

## 25 WATT SINGLE OUTPUT LED POWER SUPPLY

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### Features

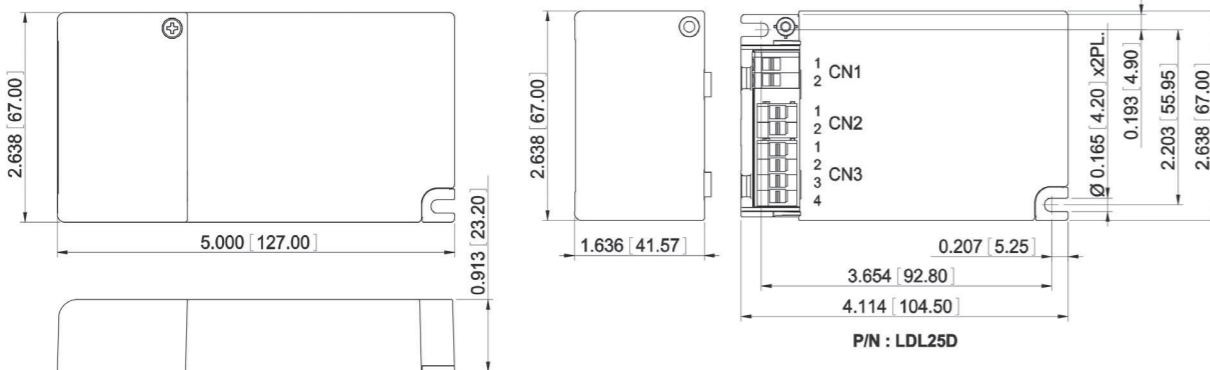
- ◆ Universal AC Input 90-264Vac / 200-264Vac
- ◆ Low AC Inrush Current < 5A
- ◆ Standby Power Consumption < 0.5W
- ◆ PF > 0.9
- ◆ DALI Dimming, 1-100%
- ◆ Adjustable Output Current Setting
- ◆ Continuous Short Circuit Protection
- ◆ Up to 2.5Ø diameter wire for terminals of CN1(L/N)
- ◆ Up to 1.5Ø diameter wire for other terminals



\* Please see page 40 for ordering information

### Mechanical Dimensions

All Dimensions are in inches(mm)  
Tolerance:Inches:X.XXX±0.02  
Millimeters:X.XX±0.5



Pin	Function	Terminal Color
1	ACN	Blue
2	ACL	Gray

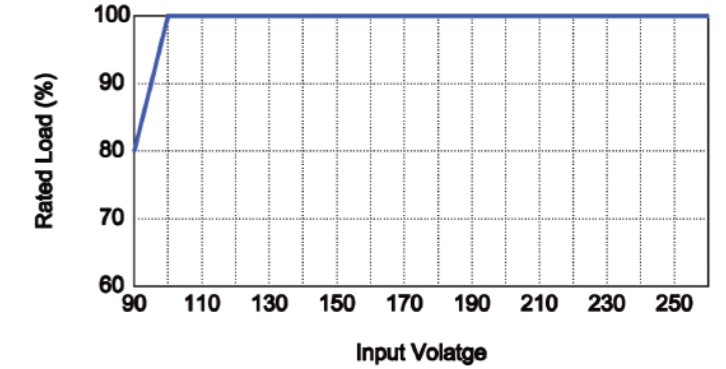
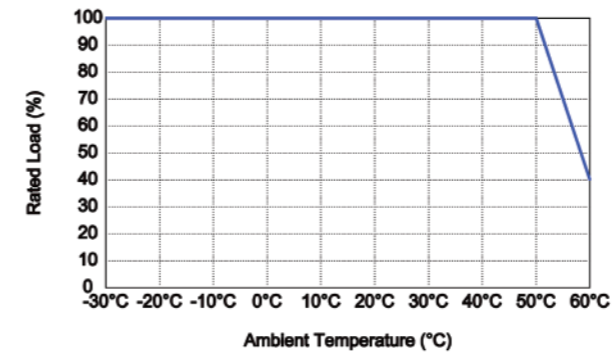
Pin	Function	Terminal Color
1	DA	Orange
2	DA	Orange

Pin	Function	Terminal Color	Pin	Function	Terminal Color
1	R	Gray	3	Vo+	Gray
2	R	Gray	4	Vo-	Gray

CN1 use the wire diameter with 0.2~2.5mm<sup>2</sup>  
CN2 / CN3 use the wire diameter with 0.2~1.5mm<sup>2</sup>

MODEL NUMBER	Input Voltage Range	Max. Output Current (CC region)	Min Output Voltage	Max Output Voltage	Max. Output Power	Resistance for I <sub>max</sub> Setting	No Load Output Voltage (max.)	Ripple % (* V out)	Eff. typ.
									LDL25DU LDL25DE
		1050mA max	15 V	24 V	25.2W max	3.3K	36 Vdc		
		900mA max	15 V	28 V	25.2W max	10K	40 Vdc		
LDL25DU	90-264 Vac	700mA max	20 V	36 V	25.2W max	22K	46 Vdc		
LDL25DE	200-264 Vac	500mA max	20 V	50 V	25.0W max	39K	60 Vdc	1 %	86% 88%
		350mA max	20 V	50 V	17.5W max	68K	60 Vdc		
		250mA max	20 V	50 V	12.5W max	150K-OPEN	60 Vdc		

### Derating Curve



### Specifications

All specifications are typical values tested at the condition of nominal line, full load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

AC Input Voltage	90-264Vac/200-264Vac
Frequency	50 / 60 Hz
AC Inrush Current	< 5A After 100µs @240Vac, 25°C Ta Cold Start
Standby Power Consumption	< 0.5W
Leakage Current	< 0.75mA

#### GENERAL SPECIFICATIONS

Efficiency	LDL25DU: 86%/LDL25DE: 88% @230Vac Full Load
Isolation voltage, Input to output	3.75KVac.
Isolation resistance, Input to output	10 <sup>8</sup> Ω min.
Surge voltage between L-N	2KV

#### OUTPUT SPECIFICATIONS

Constant Current Accuracy (note 1)	±5% max.
Current Line Regulation (note 2)	±5% max.
Current Load Regulation (note 3)	±5% max.
Over Voltage Protection	TVS clamp
Short Circuit Protection	Hiccup Mode, Auto Recovery
DALI Dimming(optional with current setting resistor between pin 1and pin 2 of CN3)	1-100%

#### SAFETY AND EMC

Safety	EN61347-1,EN61347-2-13
EMI	EN55015 Class B
EMS	EN61000-4-2,3,4,5,6,11
Harmonic Current	EN61000-3-2,3

#### MECHANICAL CHARACTERISTICS

Dimensions	127.0 x 67.0 x 23.2 mm
Weight	LDL25D : 150g

#### ENVIRONMENTAL CHARACTERISTICS

Operating Ambient Temperature	-30°C- 50°C (See Derating curve)
Cooling	Natural convection
Storage Temperature, Humidity	-40-85°C, 20%-95%RH
Operating Altitude Max.	3000m above sea level
Temperature Coefficient	±0.05%/°C (0-50°C)

#### NOTE

1. Set at 230 Vac nominal input voltage and full load.
2. Current Line regulation is measured from High Line to Low Line, full load.
3. Current Load regulation is measured from 38V to 50V Output Voltage.
4. All specifications are typical at 230 Vac, Vo max ,full load and 25°C Ta unless other noted.

# LDP25 SERIES

## 25 WATT OUTPUT LED POWER SUPPLY

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### Features

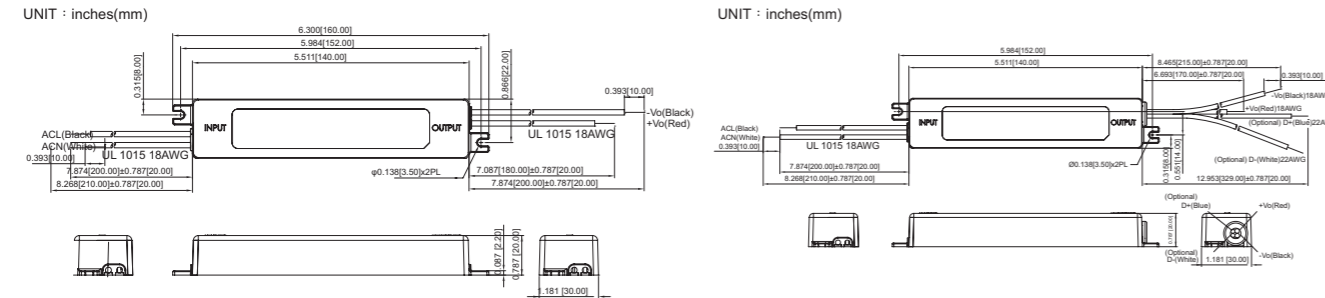
- ◆ 25W Single outputs
- ◆ Universal AC input range 90-305Vac
- ◆ Constant Current Design
- ◆ Active PFC > 0.9
- ◆ Low inrush current < 5A
- ◆ Standby Power Consumption < 0.5W
- ◆ Low profile with 20mm height and narrow 30mm width
- ◆ Low frequency flicker design
- ◆ Continuous short circuit protection
- ◆ Over temperature protection
- ◆ IP 67 Rated
- ◆ Fully isolated plastic case
- ◆ Dimming function: PWM / 1-10VDC



\* Please see page 40 for ordering information

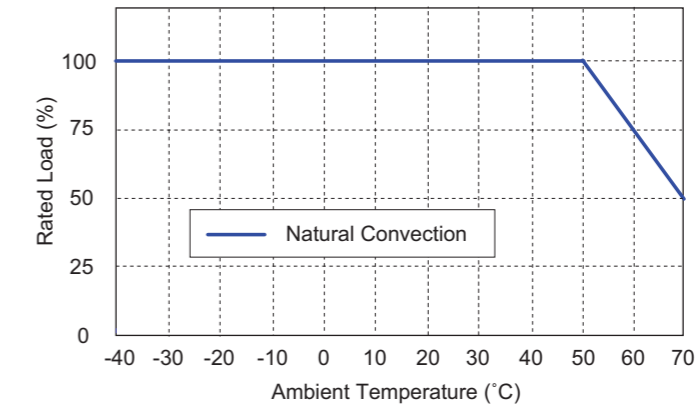
### Mechanical Dimensions

All Dimensions are in inches(mm)  
Tolerance:Inches:X.XXX±0.02  
Millimeters:X.XX±0.5



MODEL NUMBER	Output Rated Voltage	Constant Current Region	Ripple & Noise (V p-p max.)	Output Rated Current	No Load Output Voltage (max.)	Output Rated Power	%EFF. (typ.)
LDP25S240-C110BR	24 V	9-24 V	0.24 V	1100 mA	29 V	26.40 W	86%
LDP25S240-C110B	24 V	16-24 V	2.0 V				88%
LDP25S240-C105BR	24 V	9-24 V	0.24 V	1050 mA	29 V	25.20 W	85%
LDP25S240-C105B	24 V	16-24 V	2.0 V				87%
LDP25S240-C070BR	24 V	9-24 V	0.24 V	700 mA	29 V	16.80 W	84%
LDP25S240-C070B	24 V	16-24 V	2.0 V				86%
LDP25S360-C070BR	36 V	9-36 V	0.36 V	700 mA	43 V	25.20 W	86%
LDP25S360-C070B	36 V	24-36 V	2.7 V				88%
LDP25S480-C053BR	48 V	9-48 V	0.48 V	530 mA	56 V	25.44 W	86%
LDP25S480-C053B	48 V	32-48 V	4.8 V				88%
LDP25S480-C035BR	48 V	9-48 V	0.48 V	350 mA	56 V	16.80 W	84%
LDP25S480-C035B	48 V	32-48 V	4.8 V				86%

### Derating Curve



### Specifications

All specifications are typical values tested at the condition of nominal line, full load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

AC Input Voltage	90-305Vac
Frequency	47 to 63Hz
Power Factor	PF ≥ 0.9 @ 115Vac/230Vac , 75%-100%Load PF ≥ 0.9 @ 277Vac, 100% Load
Inrush Current	<5A After 100μs @240Vac, 25°C Ta Cold Start
Leakage Current	0.5mA max.
Standby Power Consumption	< 0.5W @ D+, D-off (0V, shorted)
No load Power Consumption	< 0.5W
Input Current (Full Load)	0.3A/0.14A typ @115Vac/230Vac.

#### SAFETY AND EMISSIONS

Safety	UL8750, IEC61347-1
EMI	IEC61347-2-13
EMS	FCC part 18/EN55015 Class B EN61547, EN61000-4-2,3,4,5,6,8,11 EN61000-3-2 Harmonic Class C, EN61000-3-3

#### OUTPUT SPECIFICATIONS

Maximum Output Voltage	See Table
Constant Current Accuracy (note1)	±5%max.
Current Line Regulation (note 2)	±5%max.
Current Load Regulation (note 3)	±5%max.
Start Up Time	0.5 second max.
Over Voltage Protection	TVS Clamp
Short Circuit Protection	Hiccup Mode, Auto Recovery

#### MECHANICAL CHARACTERISTICS

Dimensions	5.511 x 1.181 x 0.787 inches (140.00 x 30.00 x 20.00mm)
Weight	100g

#### GENERAL SPECIFICATIONS

Efficiency	See Table
Temperature	±0.05%/°C (0-50°C)
Isolation voltage, Input to output	3.75KVac
Isolation resistance, Input to output	10 <sup>8</sup> Ω min.
Operating Ambient Temperature	-40°C-70°C (see Derating Curve)
Cooling	natural convection
Storage Temperature	-40-85°C
Operating Humidity	20%-95%RH non-condensing.
Operating Altitude Max.	3000m above sea level
MTBF, MIL-HDBK-217F (25°C Ta)	200K hrs.

#### NOTE

1. Current accuracy is set at nominal input voltage and full load.
2. Current Line regulation is measured from High Line to Low Line with full load.
3. Current Load regulation is measured minimum to maximum of the constant current region.
4. All specifications are typical at 230 Vac, Vo Max, full load and 25°C Ta unless other noted.
5. The input/output wires accessibility shall be evaluated during final system assembly.

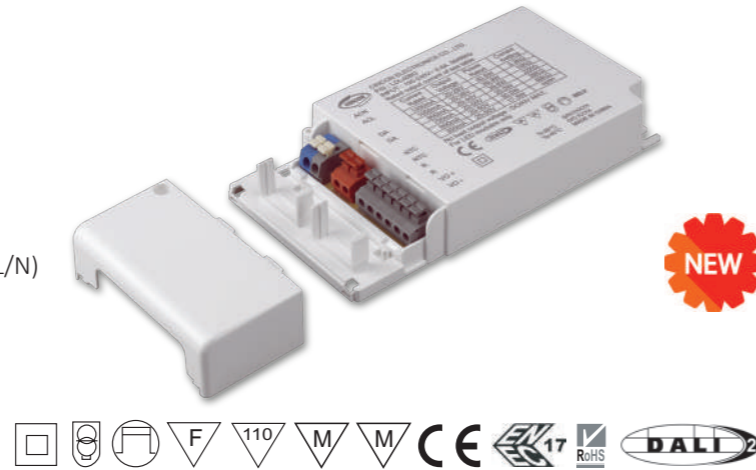
# LDL40 SERIES

## 40 WATT SINGLE OUTPUT LED POWER SUPPLY

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### Features

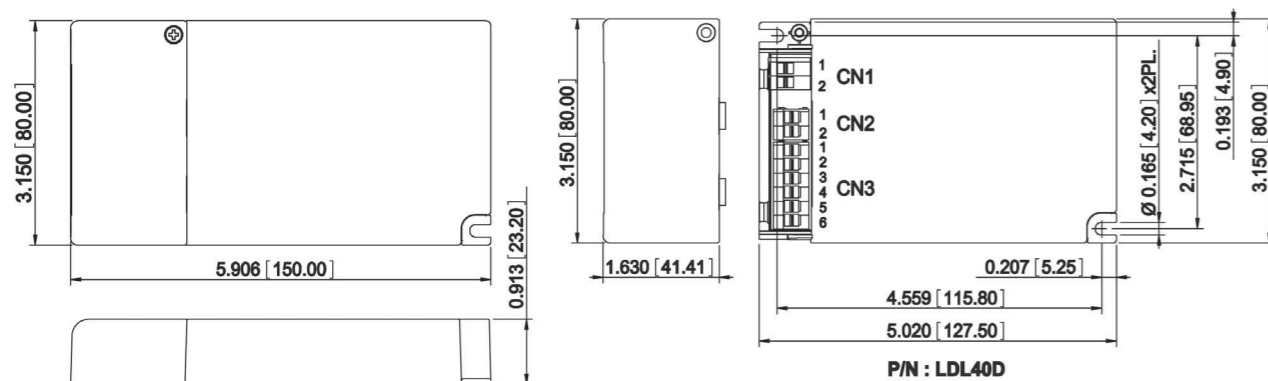
- ◆ Universal AC Input 90-264Vac / 200-264Vac
- ◆ Low AC Inrush Current < 5A
- ◆ Standby Power Consumption < 0.5W
- ◆ PF > 0.9
- ◆ DALI Dimming, 1-100%
- ◆ Adjustable Output Current Setting
- ◆ Continuous Short Circuit Protection
- ◆ Up to 2.5 $\phi$  diameter wire for terminals of CN1(L/N)
- ◆ Up to 1.5 $\phi$  diameter wire for other terminals



\* Please see page 41 for ordering information

### Mechanical Dimensions

All Dimensions in Inches (mm)  
Tolerance Inches: X.XXX $\pm$ 0.02  
Millimeters: X.XX $\pm$ 0.5



**CN1:**

PIN CONNECTION		
Pin	Function	Terminal Color
1	ACN	Blue
2	ACL	Gray

**CN2:**

PIN CONNECTION		
Pin	Function	Terminal Color
1	DA	Orange
2	DA	Orange

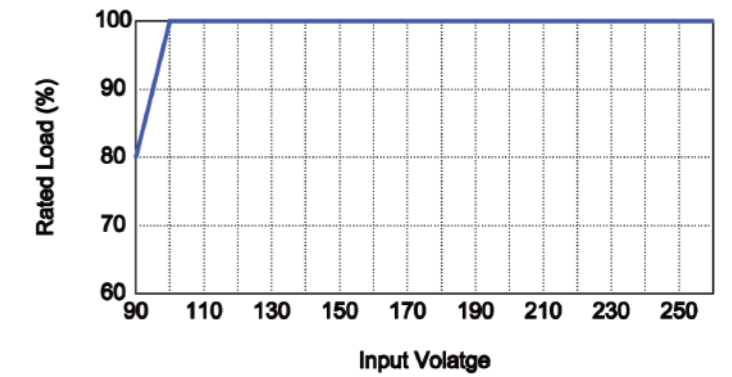
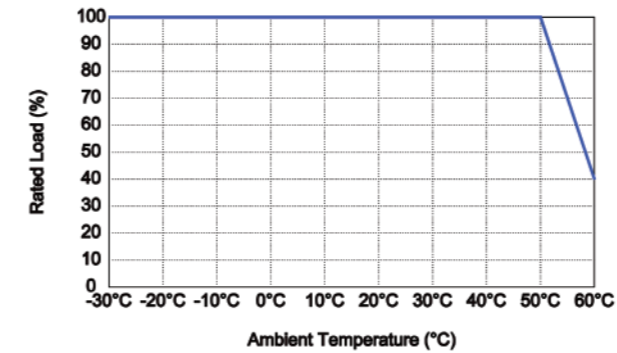
CN1 use the wire diameter with 0.2~2.5mm<sup>2</sup>  
CN2 / CN3 use the wire diameter with 0.2~1.5mm<sup>2</sup>

**CN3:**

PIN CONNECTION								
Pin	Function	Terminal Color	Pin	Function	Terminal Color	Pin	Function	Terminal Color
1	NTC	Gray	3	R	Gray	5	Vo+	Gray
2	NTC	Gray	4	R	Gray	6	Vo-	Gray

MODEL NUMBER	Input Voltage Range	Max. Output Current (CC region)	Min Output Voltage	Max Output Voltage	Max. Output Power	Resistance for I <sub>max</sub> Setting	No Load Output Voltage ( max.)	Ripple % (* V out)	Eff. typ.	
									LDL40DU	LDL40DE
LDL40DU	90-264 Vac	1400mA max	15 V	29 V	40.6W max	3.3K	40 Vdc	1 %	86%	88%
		1050mA max	20 V	38 V	39.9W max	10K	49 Vdc			
		900mA max	20 V	44 V	39.6W max	22K	55 Vdc			
LDL40DE	200-264 Vac	700mA max	20 V	50 V	35.0W max	39K	60 Vdc	1 %	86%	88%
		600mA max	20 V	50 V	30.0W max	68K	60 Vdc			
		350mA max	20 V	50 V	17.5W max	150K-OPEN	60 Vdc			

### Derating Curve



### Specifications

All specifications are typical values tested at the condition of nominal line, full load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

AC Input Voltage	90-264Vac/200-264Vac
Frequency	50 / 60 Hz
AC Inrush Current	<5A After 100 $\mu$ S @240Vac, 25°C Ta Cold Start
Standby Power Consumption	< 0.5W
Leakage Current	< 0.75mA

#### GENERAL SPECIFICATIONS

Efficiency	LDL40DU:86%/LDL40DE:88% @230Vac Full Load.
Isolation voltage, Input to output	3.75KVac
Isolation resistance, Input to output	10 <sup>8</sup> $\Omega$ min.
Surge voltage between L-N	2KV

#### OUTPUT SPECIFICATIONS

Voltage Accuracy	$\pm$ 5% max.
Constant Current Accuracy (note 1)	$\pm$ 5% max.
Current Line Regulation (note 2)	$\pm$ 5% max.
Current Load Regulation (note 3)	$\pm$ 5% max.
Over Voltage Protection	TVS clamp
Short Circuit Protection	Hiccup Mode, Auto Recovery
DALI Dimming	1-100%

#### SAFETY AND EMC

Safety	EN61347-1, EN61347-2-13
EMI	EN55015 Class B
EMS	EN61000-4-2, 3, 4, 5, 6, 11
Harmonic Current	EN61000-3-2, 3

#### MECHANICAL CHARACTERISTICS

Dimensions	150.0 x 80.0 x 23.2 mm
Weight	LDL40D : 200g

#### ENVIRONMENTAL CHARACTERISTICS

Operating Ambient Temperature	-30°C~50°C (See Derating curve)
Cooling	Natural convection
Storage Temperature, Humidity	-40~85°C, 20%-95%RH
Operating Altitude Max.	3000m above sea level
Temperature Coefficient	$\pm$ 0.05%/°C (0-50°C)

#### NOTE

1. Set at nominal input voltage and full load
2. Current Line regulation is measured from High Line to Low Line, full load.
3. Current Load regulation is measured from 38V to 50V Output Voltage.
4. All specifications are typical at 230 Vac, Vo max, full load and 25°C Ta unless other noted.

# LDP40 SERIES

## 40 WATT OUTPUT LED POWER SUPPLY

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### Features

- ◆ 40W Single outputs
- ◆ Universal AC input range 90-305Vac
- ◆ Constant Current Design
- ◆ Active PFC > 0.9
- ◆ Low inrush current < 5A
- ◆ Standby Power Consumption < 0.5W
- ◆ Low profile with 25.2mm height and narrow 40mm width
- ◆ Low frequency flicker design
- ◆ Continuous short circuit protection
- ◆ Over temperature protection
- ◆ IP 67 Rated
- ◆ Fully isolated plastic case
- ◆ Dimming function: DALI / PWM / 1-10VDC / Potentiometer

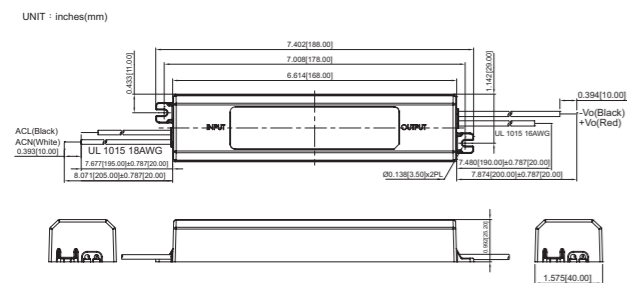


\* Please see page 41 for ordering information

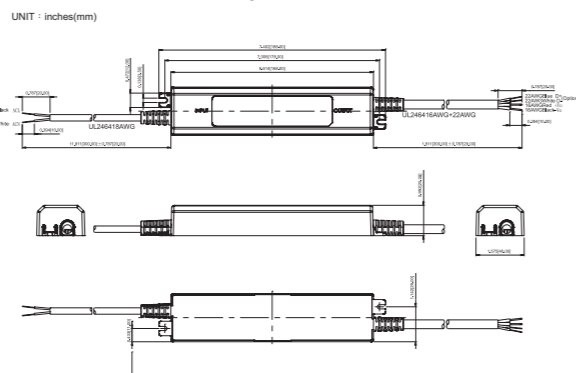
### Mechanical Dimensions

All Dimensions in Inches (mm)  
Tolerance Inches: X.XXX±0.02  
Millimeters: X.XX±0.5

Standard Cable for LDP40Sxxx-CxxxBx



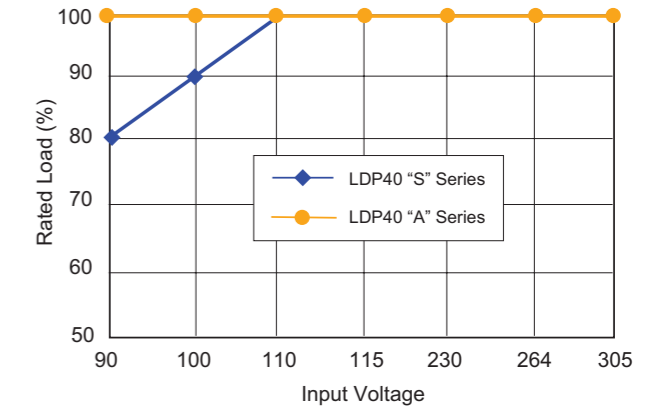
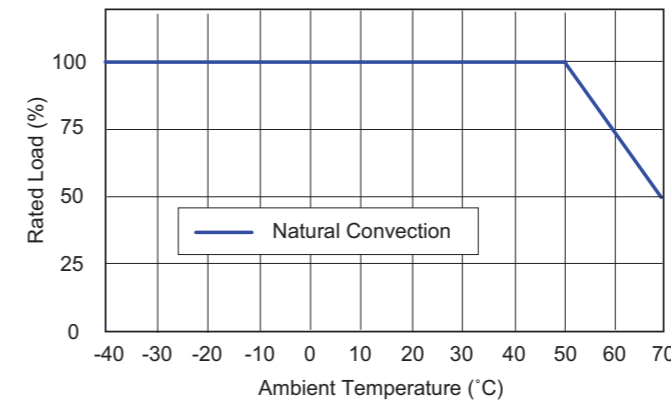
Standard Cable for LDP40Sxxx-DxxxBR, LDP40Sxxx-PxxxBR, LDP40Axxx-xxxxBR



COLOR	WIRE CONNECTION		
	NO DIMMING	PWM DIMMING	DALI DIMMING
BLUE	(N.A.)	D+	DA
WHITE	(N.A.)	D-	DA
RED	+VO	+VO	+VO
BLACK	-VO	-VO	-VO

MODEL NUMBER	Output Rated Voltage	Constant Current Region	Ripple & Noise (V p-p max.)	Output Rated Current	No Load Output Voltage (max.)	Output Rated Power	%EFF. (typ.)
LDP40S240-C170BR	24 V	9-24 VDC	0.24 V	1700 mA	29 VDC	40.80 W	86%
LDP40S240-C170B	24 V	16-24 VDC	2.0 V				89%
LDP40S240-C140BR	24 V	9-24 VDC	0.24 V	1400 mA	29 VDC	33.60 W	85%
LDP40S240-C140B	24 V	16-24 VDC	2.0 V				88%
LDP40S360-C111BR	36 V	9-36 VDC	0.36 V	1110 mA	43 VDC	40.00 W	86%
LDP40S360-C111B	36 V	24-36 VDC	2.7 V				89%
LDP40S360-C105BR	36 V	9-36 VDC	0.36 V	1050 mA	43 VDC	37.80 W	85%
LDP40S360-C105B	36 V	24-36 VDC	2.7 V				88%
LDP40S480-C084BR	48 V	9-48 VDC	0.48 V	840 mA	56 VDC	40.32 W	88%
LDP40S480-C084B	48 V	32-48 VDC	4.8 V				90%
LDP40S480-C070BR	48 V	9-48 VDC	0.48 V	700 mA	56 VDC	33.60 W	86%
LDP40S480-C070B	48 V	32-48 VDC	4.8 V				88%

### Derating Curve



### Specifications

All specifications are typical values tested at the condition of nominal line, full load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

AC Input Voltage	90-305Vac
Frequency	50/60Hz
Power Factor	PF ≥ 0.9 @ 115Vac/230Vac, 75%-100%Load
Inrush Current	< 5A After 100µs @240Vac, Cold Start @25°C Ta Cold Start
Leakage Current	0.75mA max
Standby Power Consumption	< 0.5W @ DALI off, D+, D- off (0V, shorted)
No Load Power Consumption	< 0.5W (No Dimming)
Input Current (Full Load)	0.45A/0.22A typ @ 115Vac/230Vac.

#### GENERAL SPECIFICATIONS

Efficiency	See Table
Temperature Coefficient	±0.05%/°C (0-50°C)
Isolation Voltage, Input to Output	3.75KVac
Isolation Resistance, Input to Output	10 <sup>8</sup> Ω min.
Operating Ambient Temperature	-40-70°C (see Derating Curve)
Cooling	natural convection
Storage Temperature	-40-85°C
Operating Humidity	20%-95%RH non-condensing.
Operating Altitude Max.	3000m above sea level
MTBF, MIL-HDBK-217F(25°C Ta)	200K hrs.

#### OUTPUT SPECIFICATIONS

Maximum Output Voltage	See Table
Constant Current Accuracy (note 1)	±5%max.
Current Line Regulation (note 2)	±5%max.
Current Load Regulation (note 3)	±5%max.
Start Up Time	0.5 second max.
Over Voltage Protection	TVS Clamp
Short Circuit Protection	Hiccup Mode, Auto Recovery
Over Temperature Protection	105°C typ.

#### SAFETY AND EMISSIONS

Safety	UL8750, IEC61347-1, IEC61347-2-13
EMI	FCC part 15/EN55015 Class B
EMS	EN61547, EN61000-4-2,3,4,5, 6,8,11, EN61000-3-2 Harmonic Class C, EN61000-3-3

#### MECHANICAL CHARACTERISTICS

Dimensions	6.614 x 1.575 x 0.992 inches (168.00 x 40.00 x 25.20 mm)
Weight	350g

#### NOTE

1. Current accuracy is set at nominal input voltage and full load.
2. Line regulation is measured from High Line to Low Line with full load.
3. Load regulation is measured minimum to maximum of the constant current region.
4. All specifications are typical at 230 Vac, Vo Max, full load and 25°C Ta unless other noted.
5. The input/output wires accessibility shall be evaluated during final system assembly.

# LDP60 SERIES

## 60WATT OUTPUT LED POWER SUPPLY

Visit [www.cincon.com](http://www.cincon.com) for new releases and a wider selection of products

### Features

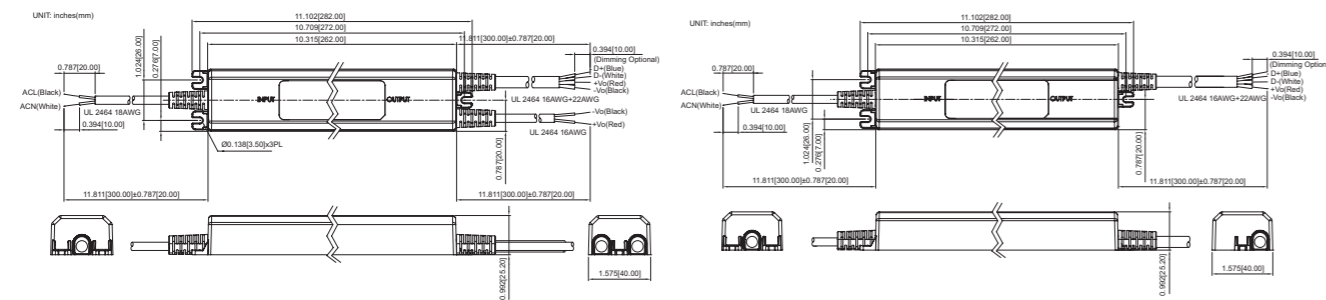
- ◆ 60W Single / Dual outputs
- ◆ Universal AC input range 90-305Vac
- ◆ Constant Current Design
- ◆ Active PFC > 0.9
- ◆ Low inrush current < 5A
- ◆ Standby Power Consumption < 0.5W
- ◆ Low profile with 25.2mm height and narrow 40mm width
- ◆ Low frequency flicker design
- ◆ Continuous short circuit protection
- ◆ Over temperature protection
- ◆ IP 67 Rated
- ◆ Fully isolated plastic case
- ◆ Dimming function: DALI / PWM / 1-10VDC / Potentiometer



\* Please see page 41 for ordering information

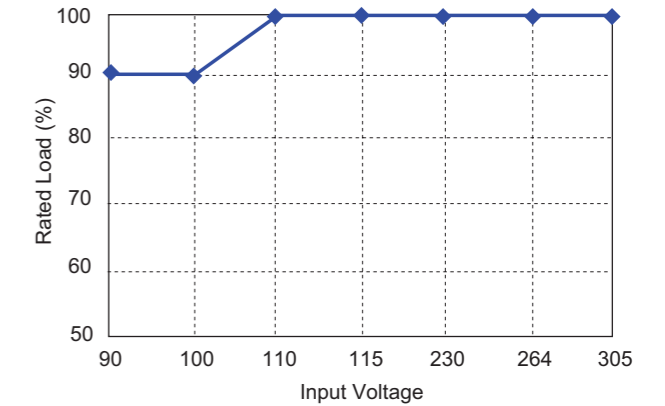
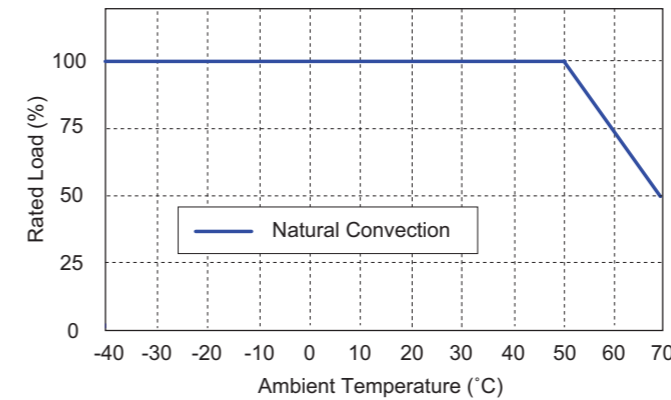
### Mechanical Dimensions

All Dimensions are in inches(mm)  
Tolerance:Inches:X.XXX±0.02  
Millimeters:X.XX±0.5



MODEL NUMBER	Output Rated Voltage	Constant Current Region	Ripple & Noise (V p-p max.)	Output Rated Current	No Load Output Voltage (max.)	Output Rated Power	%EFF. (typ.)
LDP60A240-C250BR	24 V	9-24 VDC	0.24 V	2500 mA	29 VDC	60.0 W	85%
LDP60A240-C250B	24 V	16-24 VDC	2.2 V				88%
LDP60A240-C210BR	24 V	9-24 VDC	0.24 V	2100 mA	29 VDC	50.4 W	84%
LDP60A240-C210B	24 V	16-24 VDC	2.2 V				87%
LDP60A240-C175BR	24 V	9-24 VDC	0.24 V	1750 mA	29 VDC	42.0 W	84%
LDP60A240-C175B	24 V	16-24 VDC	2.2 V				86%
LDP60A360-C166BR	36 V	9-36 VDC	0.36 V	1666 mA	43 VDC	60.0 W	85%
LDP60A360-C166B	36 V	24-36 VDC	2.7 V				89%
LDP60A360-C140BR	36 V	9-36 VDC	0.36 V	1400 mA	43 VDC	50.5 W	84%
LDP60A360-C140B	36 V	24-36 VDC	2.7 V				88%
LDP60A480-C125BR	48 V	9-48 VDC	0.48 V	1250 mA	56 VDC	60.0 W	86%
LDP60A480-C125B	48 V	32-48 VDC	4.8 V				90%
LDP60A480-C105BR	48 V	9-48 VDC	0.48 V	1050 mA	56 VDC	50.4 W	85%
LDP60A480-C105B	48 V	32-48 VDC	4.8 V				89%
LDP60B240-C125BR	24 V	9-24 VDC	0.24 V	V1 1250 mA V2 1250 mA	29 VDC 29 VDC	30.0 W 30.0 W	85%
LDP60B240-C105BR	24 V	9-24 VDC	0.24 V	V1 1050 mA V2 1050 mA	29 VDC 29 VDC	25.2 W 25.2 W	84%
LDP60B360-C083BR	36 V	9-36 VDC	0.36 V	V1 833 mA V2 833 mA	43 VDC 43 VDC	30 W 30 W	85%
LDP60B360-C070BR	36 V	9-36 VDC	0.36 V	V1 700 mA V2 700 mA	43 VDC 43 VDC	25.2 W 25.2 W	84%
LDP60B480-C062BR	48 V	9-48 VDC	0.48 V	V1 625 mA V2 625 mA	56 VDC 56 VDC	30 W 30 W	87%

### Derating Curve



### Specifications

All specifications are typical values tested at the condition of nominal line, full load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

AC Input Voltage	90-305Vac
Frequency	50/60Hz
Power Factor	PF ≥ 0.9 @ 115Vac/230Vac, 75%-100%Load
Inrush Current	< 5A After 100µs @240Vac, Cold Start @25°C Ta Cold Start
Leakage Current	0.75mA max
Standby Power Consumption	< 0.5W @ DALI off, D+, D- off (0V, shorted)
No Load Power Consumption	< 0.5W (No Dimming)
Input Current (Full Load)	0.69A/0.32A typ @115Vac/230Vac

#### SAFETY AND EMISSIONS

Safety	UL8750, IEC61347-1 IEC61347-2-13
EMI	FCC part 15/EN55015 Class B
EMS	EN61547, EN61000-4-2, 3, 4, 5, 6, 8, 11 EN61000-3-2 Harmonic Class C, EN61000-3-3

#### OUTPUT SPECIFICATIONS

Maximum Output Voltage	See Table.
Constant Current Accuracy (note 1)	±5%max.
Current Line Regulation (note 2)	±5%max.
Current Load Regulation (note 3)	±5%max.
Start Up Time	0.5 second max.
Over Voltage Protection	TVS Clamp.
Short Circuit Protection	Hiccup Mode, Auto Recovery
Over Temperature Protection	105°C typ.

#### NOTE

1. Current accuracy is set at nominal input voltage and full load.
2. Line regulation is measured from High Line to Low Line with full load.
3. Load regulation is measured minimum to maximum of the constant. current region.
4. All specifications are typical at 230 Vac, Vo Max, full load and 25°C Ta unless other noted.
5. The input/output wires accessibility shall be evaluated during final system assembly.

#### GENERAL SPECIFICATIONS

Efficiency	See Table.
Temperature Coefficient	±0.05%/°C (0-50°C).
Isolation Voltage, Input to Output	3.75KVac.
Isolation Resistance, Input to Output	10 <sup>8</sup> Ω min.
Operating Ambient Temperature	-40-70°C (see Derating Curve).
Cooling	natural convection.
Storage Temperature	-40-85°C.
Operating Humidity	20%-95%RH non-condensing.
Operating Altitude Max.	3000m above sea level
MTBF, MIL-HDBK-217F (25°C Ta)	200K Hrs.



# LDM60S SERIES

## 60 WATT SINGLE OUTPUT AC-DC LED DRIVER

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### Features

- ◆ Universal Input 90-305Vac or 127-420Vdc
- ◆ High Efficiency up to 90%
- ◆ EN55015, EN61000-3-2 Class C
- ◆ EN61347-1, EN61347-2-13
- ◆ Safety UL8750, UL1310 Class 2
- ◆ Active PFC Function
- ◆ IP67 Design (note 7)
- ◆ Max. Output power 60W
- ◆ Dimming function: 1-10Vdc and Resistance or DALI (Optional)
- ◆ Protections: Short Circuit, Over Current Over Voltage and Over Temperature
- ◆ Constant Voltage and Constant Current
- ◆ Standby Power Consumption < 0.5W (note 10)

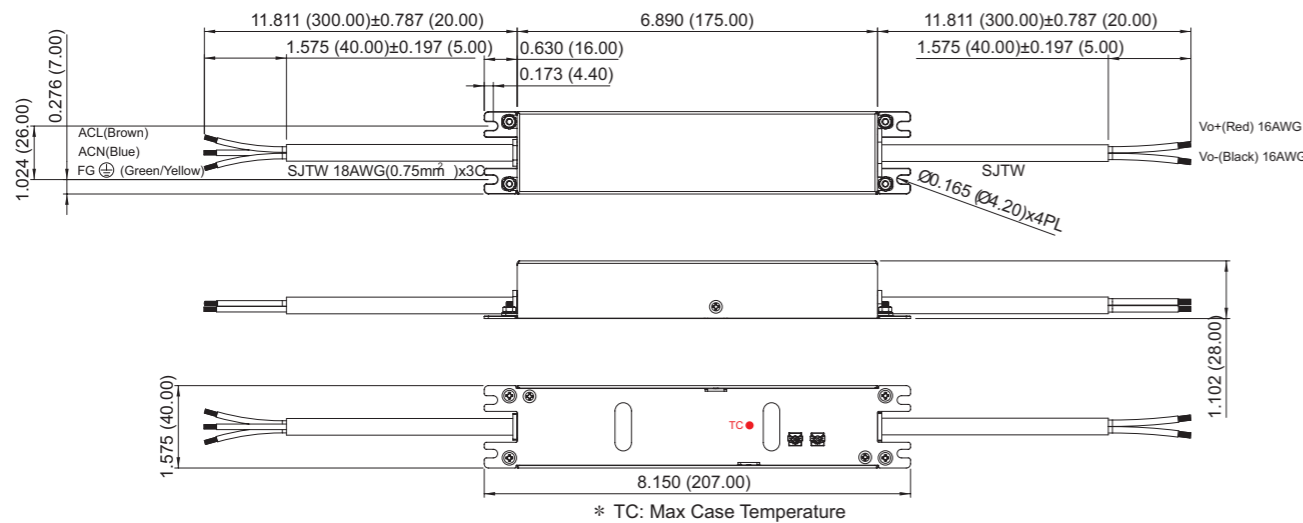


IP67 cULus CE DALI Class 2

\* Please see page 42 for ordering information

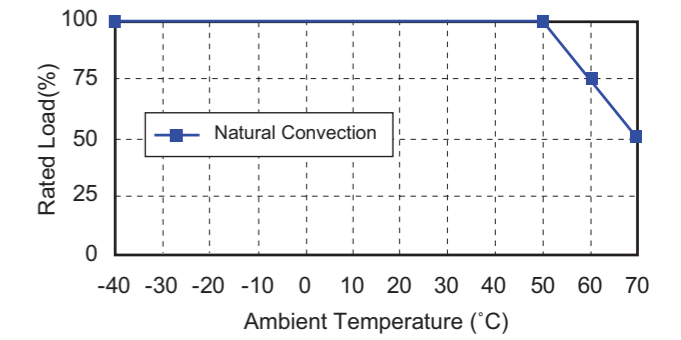
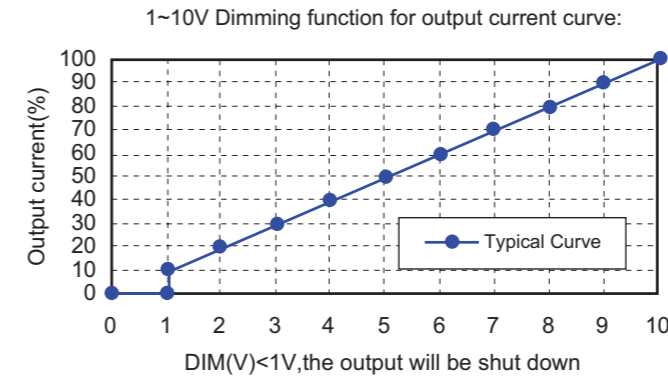
### Mechanical Dimensions

All Dimensions in Inches (mm)  
Tolerance Inches:x.xxx±0.02  
Millimeters:x.xx±0.5



Model Number	Output Voltage	Output Current Note.6	Ripple (mV p-p) Note.1	Voltage Accuracy Note.2	Line Regulation Note.3	Load Regulation Note.4	Constant Current Region	Current Adj. Rang (Optional) Note.5	Voltage Adj. Rang (Optional) Note.5	%EFF. (Typ.) Note.8
LDM60S120	12 V	5.00 A	120 mV	±1%	±1%	±2%	6.5 V-12 V	3 A-5 A	10.8 V-13.2 V	87%
LDM60S240	24 V	2.50 A	120 mV	±1%	±1%	±2%	13 V-24 V	1.5 A-2.5 A	21.6 V-26.4 V	88%
LDM60S360	36 V	1.67 A	120 mV	±1%	±1%	±2%	19 V-36 V	1.0 A-1.67 A	32.4 V-39.6 V	89%
LDM60S480	48 V	1.25 A	120 mV	±1%	±1%	±2%	26 V-48 V	0.75 A-1.25 A	43.2 V-52.8 V	90%

### Derating Curve



### Specifications

All specifications are typical values tested at the condition of nominal line, 75% load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

Voltage	90-305Vac or 127-420Vdc
Frequency	47 to 63Hz
Inrush Current	60A max. @240Vac, Cold Start @25°C
Conducted EMI	CISPR/FCC Class B
Power Factor	PF>= 0.9
Leakage Current	0.75mA max. @ 277Vac
Input Current	0.6A typ. @110Vac, Pout=59W 0.31A typ. @230Vac, Pout=59W

#### SAFETY AND EMC

Emission and Immunity	EN55015, CISPR22 EN61547, EN61000-3-2, EN61000-3-3
Isolation Voltage	I/P-O/P 3750VAC
Surge	4KV
Safety	UL8750, UL1310 Class 2 EN61347-1, EN61347-2-13
Harmonic Current	EN61000-3-2 Class C (>60% load)
Isolation Resistance	100MΩ min.

#### OUTPUT SPECIFICATIONS

Holdup Time	16ms typ. @115Vac
Short Circuit Protection	Hiccup Mode (Auto Recover)
Temperature Coefficient	±0.05% /°C
Over Voltage Protection	TVS Component to Clamp
Over Current Limit	constant current mode (note 9)
Over Temperature Protection	110°C typ.
Operating Altitude Max.	2000m above sea level
Startup Time	0.5s max. (note 11)
Rise Time	50ms typ.
MTBF...MIL-HDBK-217F, GB, at 25°C/115VAC	150KHrs typ.
Life time	50000 Hours. min. @ full load, 25°C.
Vibration	15-2000Hz 4G period for 60min, each along X Y Z axes

#### MECHANICAL CHARACTERISTICS

Dimensions	1.5748 x 8.149 x 1.1023 inches (40 x 207 x 28 mm)
Weight	454g typ.

#### NOTE

1. Measured from high line to low line.
2. Add a 0.1μF ceramic capacitor and a 10μF E.L. capacitor to output for Ripple, Noise measuring @20MHz BW and 95% rated current.
3. Voltage accuracy is set of 90% rated current.
4. Line regulation is measured from High Line to Low Line with 90% Rated current.
5. Load regulation is measured from 90% to 10% Rated current.
6. Can be adjusted by internal potentiometer.
7. Output Constant Current Accuracy ±5%.
8. IP67 for model: LDM60SXXX-01, LDM60SXXX-03, LDM60SXXX-04  
IP65 for model: LDM60SXXX-02, LDM60SXXX-03A, LDM60SXXX-04A
9. Efficiency is measured 95% rated power at Vin=230VAC.
10. Less than 50% (Typ.) of the rated output voltage will enter hiccup mode.
11. No load power consumption< 0.5W for LDM60SXXX-01, 02  
No load power consumption< 0.5W for LDM60SXXX-03, -03A, -04, -04A  
Stand by power consumption< 0.5W for LDM60SXXX-03, -03A, -04, -04A
12. Start-up time interval must be greater than 3 seconds.

#### GENERAL SPECIFICATIONS

Operating Temperature	-40-70°C (see Derating Curve)
Storage Temperature	-40-85°C
Cooling	Natural Convection

# LDM100S SERIES

## 100 WATT SINGLE OUTPUT AC-DC LED DRIVER

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### Features

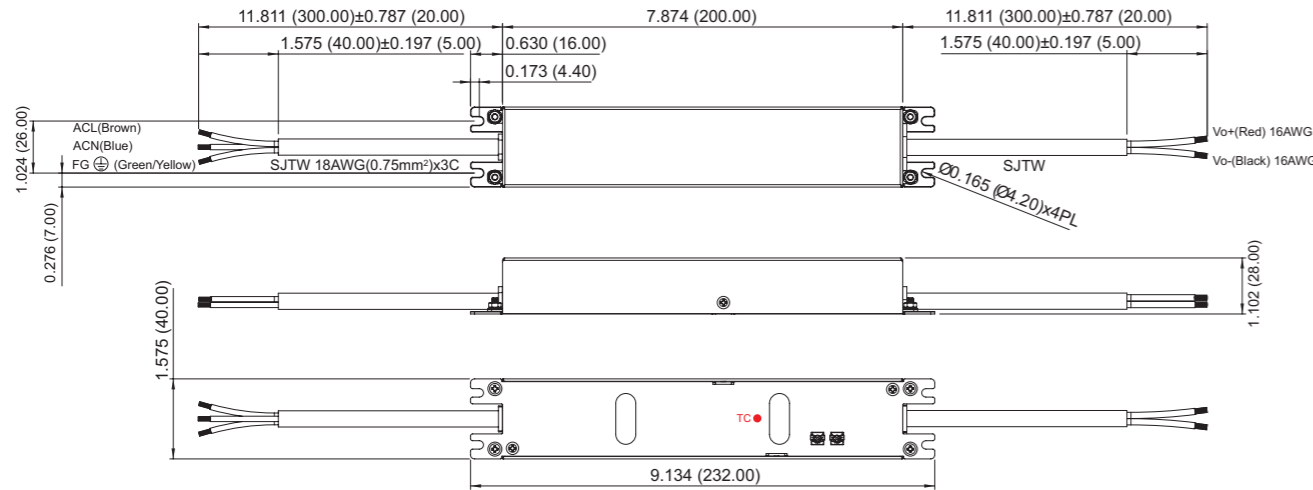
- ◆ Universal Input 90-305Vac or 127-420Vdc
- ◆ High Efficiency up to 90%
- ◆ EN55015, EN61000-3-2 Class C
- ◆ EN61347-1, EN61347-2-13
- ◆ Safety UL8750
- ◆ Active PFC Function
- ◆ IP67 Design (note 7)
- ◆ Max. Output power 100W
- ◆ Dimming function: 1-10Vdc, and Resistance or DALI (Optional)
- ◆ Protections: Short circuit, Over Current, Over Voltage and Over Temperature
- ◆ Constant Voltage and Constant Current
- ◆ Standby Power Consumption < 0.5W (note 10)



### Mechanical Dimensions

\* Please see page 42 for ordering information

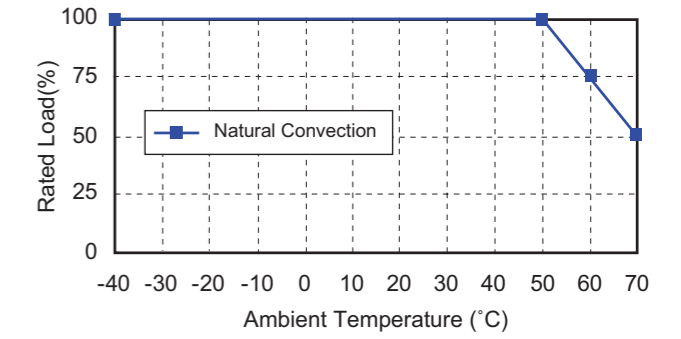
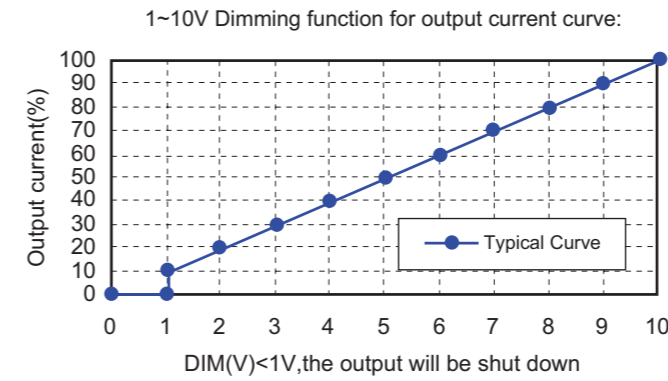
All Dimensions in Inches (mm)  
Tolerance Inches: x.xxx±0.02  
Millimeters: x.xx±0.5



\* TC: Max Case Temperature

Model Number	Output Voltage	Output Current Note.6	Ripple (mV p-p) Note.1	Voltage Accuracy Note.2	Line Regulation Note.3	Load Regulation Note.4	Constant Current Region	Current Adj. Rang (Optional) Note.5	Voltage Adj. Rang (Optional) Note.5	%EFF. (Typ.) Note.8
LDM100S120	12 V	8.34 A	120 mV	±1%	±1%	±2%	6.5 V-12 V	5.3 A-8.34 A	10.8 V-13.2 V	88%
LDM100S240	24 V	4.17 A	120 mV	±1%	±1%	±2%	13 V-24 V	2.6 A-4.17 A	21.6 V-26.4 V	89%
LDM100S360	36 V	2.78 A	120 mV	±1%	±1%	±2%	19 V-36 V	1.74 A-2.78 A	32.4 V-39.6 V	90%
LDM100S480	48 V	2.08 A	120 mV	±1%	±1%	±2%	26 V-48 V	1.3 A-2.08 A	43.2 V-52.8 V	90%

### Derating Curve



### Specifications

All specifications are typical values tested at the condition of nominal line, 75% load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

Voltage	90-305Vac or 127-420Vdc
Frequency	47 to 63Hz
Inrush Current	75A max. @240Vac, Cold Start @25°C
Conducted EMI	CISPR/FCC Class B
Power Factor	PF>= 0.9
Leakage Current	0.75mA max. @ 277Vac
Input Current	1.1A typ. @110Vac, Pout=99W 0.55A typ. @230Vac, Pout=99W

#### OUTPUT SPECIFICATIONS

Holdup Time	16ms typ. @115Vac
Short Circuit Protection	Hiccup Mode (Auto Recover)
Temperature Coefficient	±0.05% /°C
Over Voltage Protection	TVS Component to Clamp
Over Current Limit	constant current mode (note 9)
Over Temperature Protection	110°C typ
Operating Altitude Max.	2000m above sea level
Startup Time	0.5s max. (note 11)
Rise Time	50ms typ.
MTBF..... MIL-HDBK-217F, GB, at 25°C /115VAC	160Khrs typ.
Life Time	40000 Hours min, @ full load, 25°C
Vibration	15-2000Hz 4G period for 60min, each along X Y Z axes

#### GENERAL SPECIFICATIONS

Operating Temperature	-40~70°C (see Derating Curve)
Storage Temperature	-40~85°C
Cooling	Natural Convection

#### SAFETY AND EMC

Emission and Imunity	EN55015, CISPR22
Isolation Voltage	EN61547, EN61000-3-2, EN61000-3-3
Surge	I/P-O/P 3750VAC
Safety	4KV
Harmonic Current	UL8750, EN61347-1, EN61347-2-13
Isolation Resistance	EN61000-3-2 Class C (>60% load) 100MΩ min

#### MECHANICAL CHARACTERISTICS

Dimensions	1.5748 x 9.1338 x 1.1023 inches (40 x 232 x 28 mm)
Weight	504g typ.

#### NOTE

1. Add a 0.1μF ceramic capacitor and a 10μF E.L. capacitor to output for Ripple, Noise measuring @20MHz BW and 95% rated current.
2. Voltage accuracy is set of 90% rated current.
3. Line regulation is measured from High Line to Low Line with 90% Rated current.
4. Load regulation is measured from 90% to 10% Rated current.
5. Can be adjusted by internal potentiometer.
6. Output Constant Current Accuracy ±5%
7. IP67 for model: LDM100SXXX-01, LDM100SXXX-03, LDM100SXXX-04  
IP65 for model: LDM100SXXX-02, LDM100SXXX-03A, LDM100SXXX-04A
8. Efficiency is measured 95% rated power at Vin=230VAC.
9. Less than 50% (Typ.) of the rated output voltage will enter hiccup mode.
10. No load power consumption< 0.5W for LDM100SXXX-01,02  
No load power consumption< 1.5W for LDM100SXXX-03,03A,04,04A  
Stand by power consumption< 0.5W for LDM100SXXX-03,03A,04,04A
11. Start-up time interval must be greater than 3 seconds.

# LDA 100S SERIES

## 100 WATT, HIGH OUTPUT VOLTAGE 142 – 214 VDC

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### Features

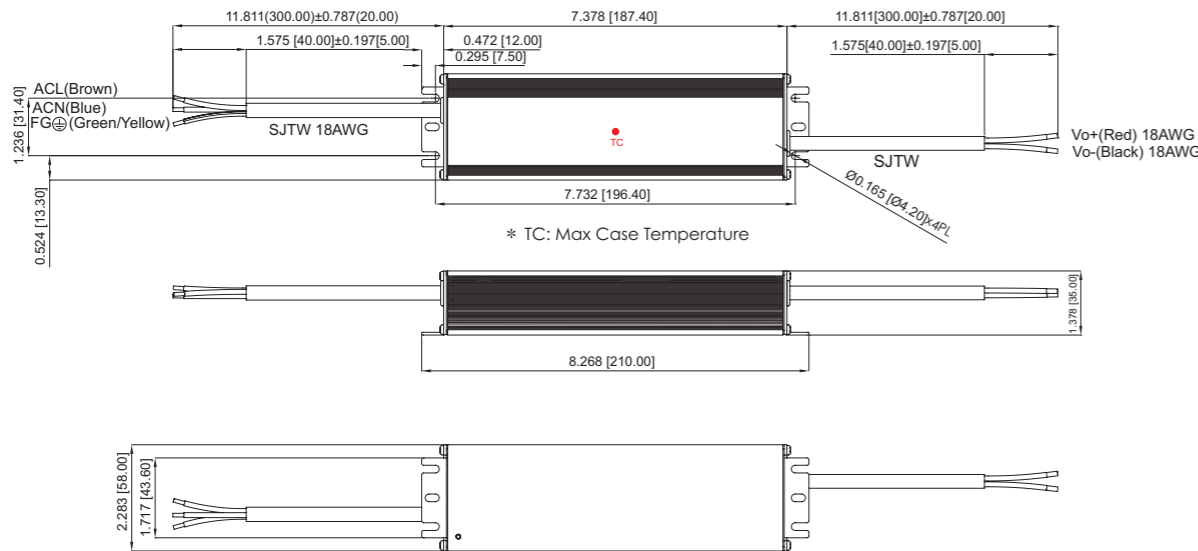
- ◆ Universal Input Range 90-305Vac
- ◆ Built-in active PFC function
- ◆ High efficiency up to 92%
- ◆ 4KV surge protection
- ◆ UL8750, EN61347, EN62384 approved
- ◆ Harmonic meet EN61000-3-2 Class C
- ◆ Short Circuit, Over Voltage, Over temperature Protection
- ◆ IP67 design
- ◆ Suitable for LED Street Lighting applications
- ◆ Dimming Function (Optional) : 1-10Vdc and Resistance or DALI
- ◆ Standby Power Consumption < 0.5W (Note 8)



\* Please see page 42 for ordering information

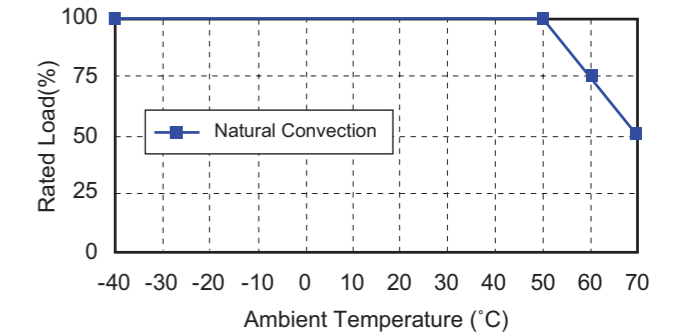
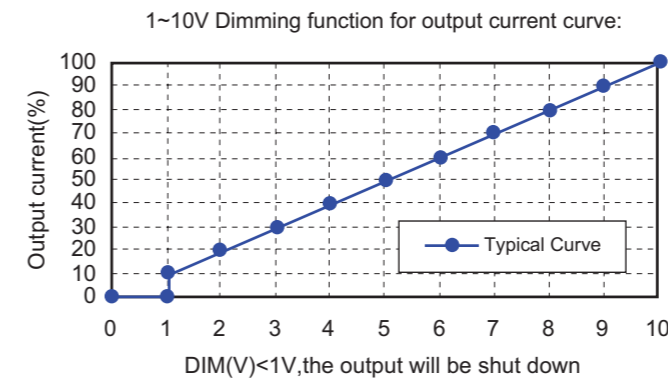
### Mechanical Dimensions

All Dimensions in Inches (mm)  
Tolerance Inches:x.xxx±0.02  
Millimeters:x.xx±0.5



Model Number	Output Voltage (No Load)	Output Current Note.7	Ripple & Noise Note.1	Voltage Accuracy Note.2	Line Regulation Note.3	Load Regulation Note.4	Constant Current Region	Efficiency (Typical.) Note.5
LDA100S142	142 V	0.70 A	0.5%	±1%	±1%	±2%	71-138 V	92%
LDA100S214	214 V	0.50 A	0.5%	±1%	±1%	±2%	107-210 V	92%
LDA100S214A	214 V	0.35 A	0.5%	±1%	±1%	±2%	107-210 V	90%

### Derating Curve



### Specifications

All specifications are typical values tested at the condition of nominal line, 75% load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

Voltage	90-305Vac
Frequency	47-63Hz
Inrush Current	Cold start @25°C 100A max. @240Vac
Leakage Current	0.75mA max.
Power Factor	PF> 0.98/115Vac, PF> 0.93/230Vac @ full load
Input Current	1.2A typ. @115Vac / 0.55A typ. @230Vac / 0.5A typ. @277vac

#### OUTPUT SPECIFICATIONS

Holdup Time	12ms typ. @115Vac
Short Circuit Protection	Auto Recovery
Over Voltage Protection	Recycle AC input to restart
Over Current Limit	Constant Current mode (note 6)
Over Temperature Protection	Yes
Startup time	0.5s max. (note 9)
Temperature Coefficient	±0.05%/°C

#### GENERAL SPECIFICATIONS

Isolation Voltage	Input to output = 3750VAC
Isolation Resistance	100MΩ min.
Operating Temperature	-40~70°C (see Drating Curve)
Storage Temperature	-40~85°C
Humidity	20-95% RH non condensing
Cooling	Natural Convection
Switching Frequency	65kHz typ.
MTBF.....MIL-HDBK-217F, GB, 25°C	180Khrs Typ.
Vibration	15-2000Hz 4G period for 60min, each along X Y Z axes
Operating Altitude Max.	2000m above sea level

#### SAFETY AND EMC

Emission and Immunity	EN61547, EN55015, CISPR22 Class B, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2 Class C (>50% load)
Harmonic Current	4KV
Surge	UL8750, EN61347-1, EN61347-2-13, EN62384.
Safety	

#### MECHANICAL CHARACTERISTICS

Dimensions	210 x 58 x 35 mm (8.268 x 2.283 x 1.378 inches)
Weight	750g Typical

#### NOTE

1. Add a 0.1μF ceramic capacitor and a 10μF E.L. Capacitor to output for Ripple & Noise measuring @20MHz BW with 95% Rated current.
2. Voltage accuracy is set of 90% rated current.
3. Line regulation is measured from high line to low Line with 90% Rated current.
4. Load regulation is measured from 90% to 10% Rated current.
5. Efficiency is measured 95% rated power at Vin=230VAC.
6. Less than 50% (Typ.) of the rated output voltage will enter hiccup mode.
7. Output Constant Current Accuracy ±5%.
8. No load power consumption< 0.5W for LDA100SXXX-01. No load power consumption< 1.5W for LDA100SXXX-03, 04. Stand by power consumption< 0.5W for LDA100SXXX-03, 04.
9. Start-up time interval must be greater than 3 seconds.
10. LDA100SXXX-03 safety UL approved only.

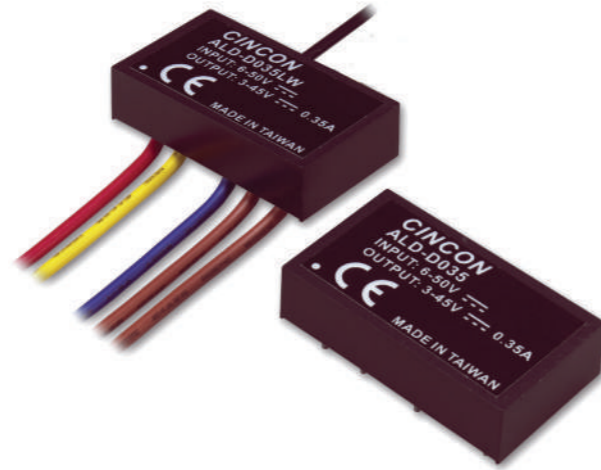
# ALD-D SERIES

## 50.4 WATT BUCK LED DRIVER with DALI

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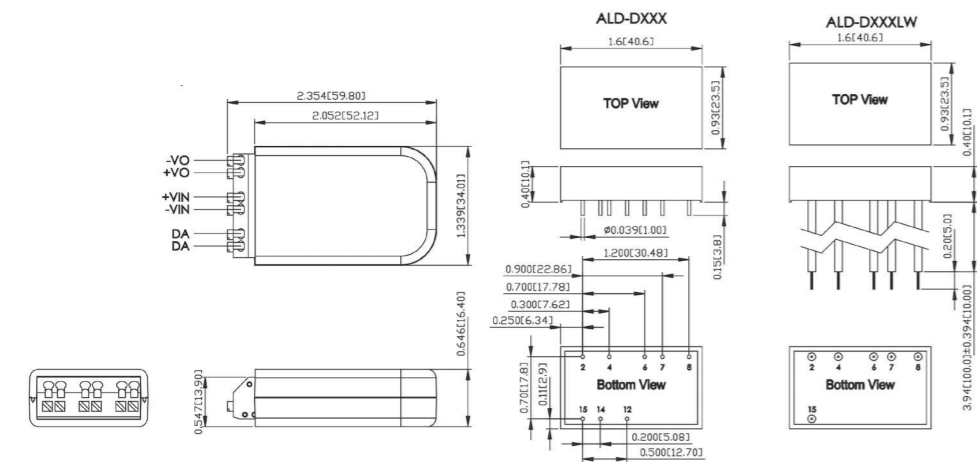
### Features

- ◆ LED Driver Current up to 1400mA
- ◆ Constant Current Output
- ◆ Digital Address Lighting Interface (DALI)
- ◆ High Efficiency up to 95%
- ◆ Continuous Short Circuit Protection
- ◆ High Reliability
- ◆ IP65 Protection



### Mechanical Dimensions

NOTE: Pin Size is 0.020" Inch (0.5mm) DIA±0.05  
All Dimensions In Inches[mm]  
Tolerance Inches:x.xx=±0.02, x.xxx=±0.010  
Millimeters: x.x=±0.5, x.xx=±0.25

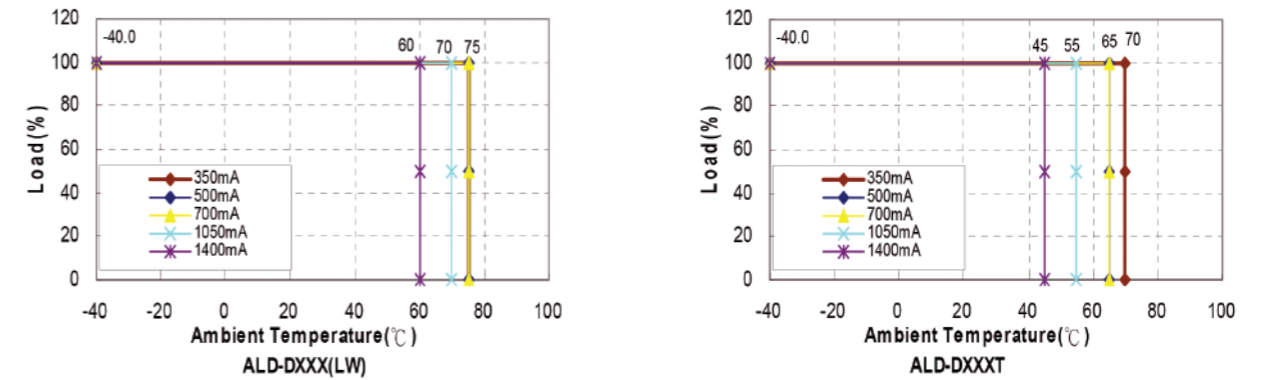


ALD CONNECTION		
Function	ALD-DXXX	ALD-DXXXLW
+V Input	2	2 (Red)
+V Output	4	4 (Yellow)
-V Output	6	6 (Blue)
DA	7	7 (Brown)
DA	8	8 (Brown)
Analogue Dimming	12	NC
PWM DIM	14	NC
-V Input	15	15 (Black)

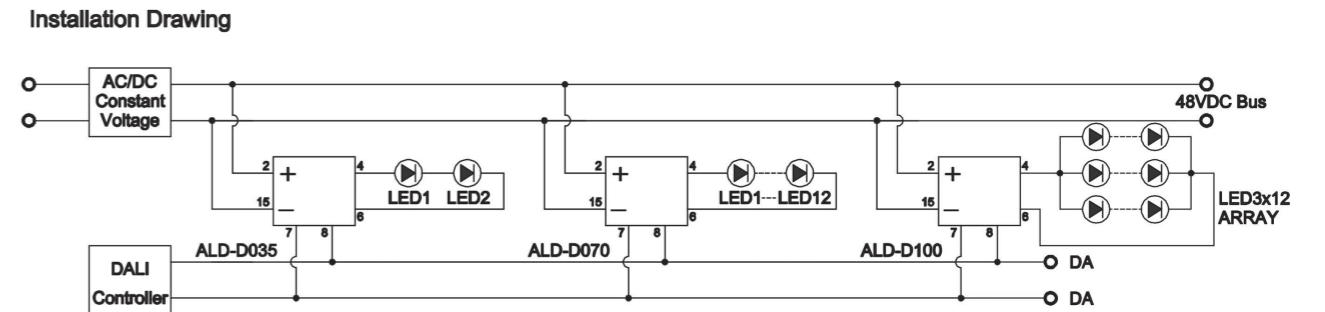
MODEL NUMBER	Input Voltage Range	Output Operating Voltage	Output Rated Current	Output Rated Power	Ripple and Noise (max.) Note 2	Efficiency (Typical) Note 3
ALD-D035	6-50 VDC	3-45 VDC	350 mA	15.75 W	300 mVpp	95%
ALD-D050	6-50 VDC	3-45 VDC	500 mA	22.50 W	500 mVpp	95%
ALD-D070	6-50 VDC	3-45 VDC	700 mA	31.50 W	500 mVpp	95%
ALD-D100	6-50 VDC	3-45 VDC	1050 mA	47.25 W	500 mVpp	95%
ALD-D140	6-40 VDC	3-36 VDC	1400 mA	50.40 W	500 mVpp	95%

Note:  
1. 3V<Vin - Vout <30Vdc, to keep current accuracy. Nominal Input Voltage: 48Vdc, 28Vdc (D140 models).  
2. Ripple and Noise are measured at rated current, Nominal Input and 36Vdc or 24Vdc (D140 models) output and 20MHz bandwidth with a 0.1uF ceramic capacitor.  
3. Measured at rated current, Nominal Input and 36Vdc or 24Vdc (D140 models) output.  
4. Acceptable customer modifications.

### Derating Curve



### Installation Drawing



### Specifications

All specifications are typical values tested at the condition of nominal line, full load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

Input Voltage	1400mA/other 6-40Vdc/6-50Vdc
Input Surge Voltage (1 second)	1400mA/other 50Vdc/65Vdc max.
Input Filter	Capacitor
Under Voltage Lockout	Power up ..... 4.2Vdc typ. Power down ..... 3.8Vdc typ.

#### OUTPUT SPECIFICATIONS

Constant Current Accuracy (note 1)	±5% max.
Current Line Regulation (note 2)	±5% max.
Current Load Regulation (note 3)	±5% max.
Short Circuit Protection	Constant Current with Auto Recovery
Start Up Time	60ms max.

#### DALI Control

Output Current Dimming Range	5%-100%
------------------------------	---------

#### SAFETY AND EMISSIONS

EMI	EN55022/EN55015 Class B
EMS	EN61547, EN61000-4-2,3,4,5,6

#### GENERAL SPECIFICATIONS

Efficiency	See Table
Temperature Coefficient	±0.05%/°C (0-50°C)
Isolation Voltage	Non-isolation
Switching Frequency	500KHz typ.
Operating Ambient Temperature	-40-75°C see Derating Curve
Case Temperature	100°C max.
Cooling	Natural Convection
Storage Temperature	-55-125°C
Operating Humidity	10%-95%RH non-condensing
Operating Altitude Max.	3000m above sea level
Vibration	0-500Hz, 2G 60min./1cycle, period for 3hours, 3 axes
Shock	30g peak, half sine, 6 axes
MTBF, MIL-HDBK-217F (25°C)	700Khrs.(typ.)
Dimensions	1.6 x 0.93 x 0.40 inches (40.6 x 23.5 x 10.1 mm)
Weight	PIN / LW / T.....18g/23g/30g
Case Material	Plastic Case

#### NOTE

- 3V<Vin-Vout <30Vdc to keep current accuracy.
- Current line regulation is measured from high line to low line.
- Current load regulation is measured from high to low operating voltage.
- Suffix "LW" to the model number with wire type.
- Suffix "T" to the model number with terminal type and only meets IP20 Terminal: WAGO 250-108 or equivalent; wire range: 16-20 AWG.
- Acceptable customer modifications.

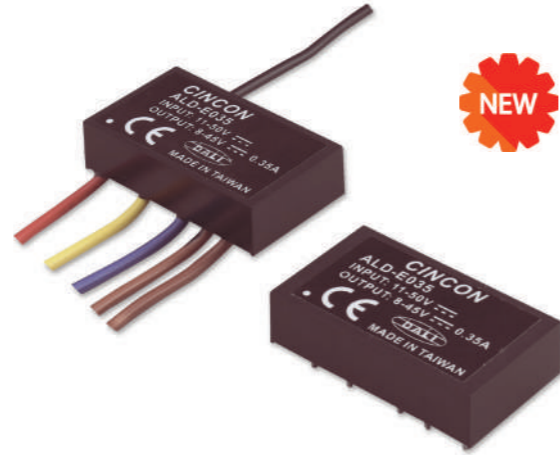
# ALD-E SERIES

## 50.4 WATT BUCK LED DRIVER WITH DALI

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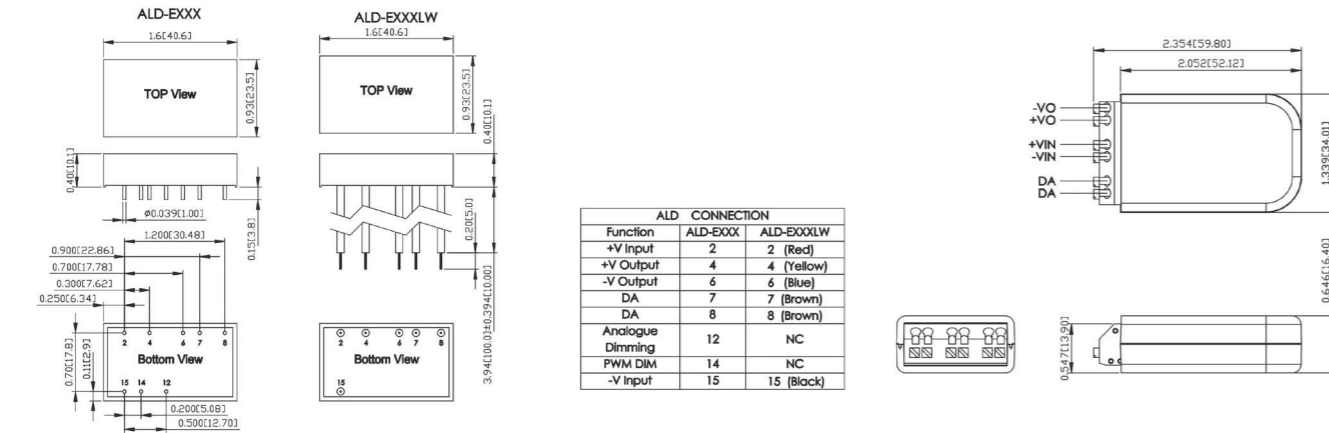
### Features

- ◆ LED Driver Current up to 1400mA
- ◆ Constant Current Output
- ◆ Digital Address Lighting Interface (DALI)
- ◆ High Efficiency up to 95%
- ◆ Continuous Short Circuit Protection
- ◆ High Reliability
- ◆ IP65 Protection (Note7)
- ◆ DALI Dimming 1-100%



### Mechanical Dimensions

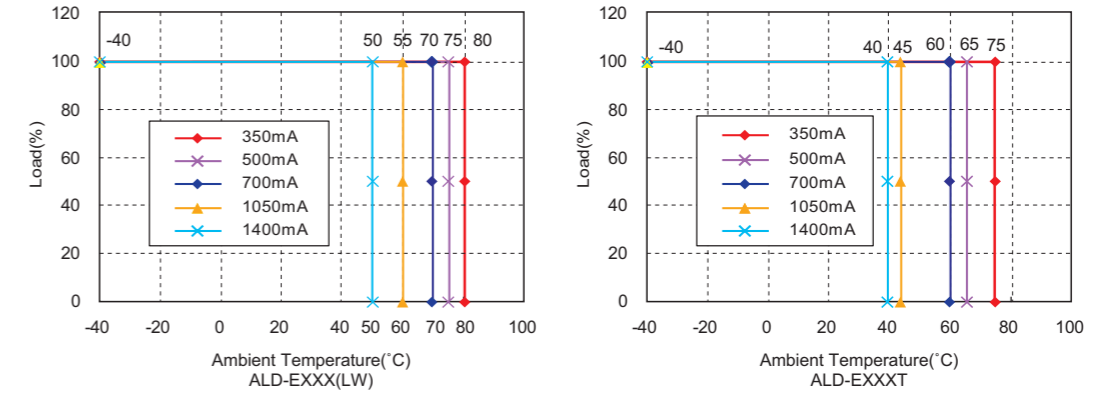
NOTE: Pin Size is 0.020" Inch (0.5mm) DIA±0.05  
All Dimensions in Inches[mm]  
Tolerance Inches:x.xx±0.02, x.xxx±0.010  
Millimeters: x.x±0.5, x.xx±0.25



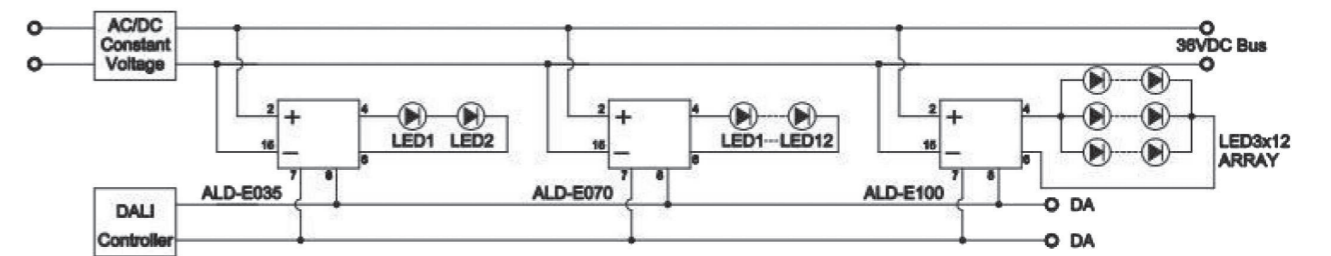
MODEL NUMBER	Input Voltage Range	Output Operating Voltage	Output Rated Current	Output Rated Power	Ripple and Noise (max.) Note 2	Efficiency (Typical) Note 3
ALD-E035	11-50 VDC	8-45 VDC	350 mA	15.75 W	300 mVpp	95%
ALD-E050	11-50 VDC	8-45 VDC	500 mA	22.50 W	500 mVpp	95%
ALD-E070	11-50 VDC	8-45 VDC	700 mA	31.50 W	500 mVpp	95%
ALD-E100	11-50 VDC	8-45 VDC	1050 mA	47.25 W	500 mVpp	95%
ALD-E140	11-40 VDC	8-36 VDC	1400 mA	50.40 W	500 mVpp	95%

Note:  
1. 3V<Vin - Vout <20Vdc, to keep current accuracy. Nominal Input Voltage: 36Vdc.  
2. Ripple and Noise are measured at rated current, Nominal Input and 33Vdc output and 20MHz bandwidth with a 0.1uF ceramic capacitor.  
3. Measured at rated current, Nominal Input and 33Vdc output.  
4. Acceptable customer modifications.

### Derating Curve



### Installation Drawing



### Specifications

All specifications are typical values tested at the condition of nominal line, full load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

Input Voltage	1400mA/other 11-40Vdc/11-50Vdc
Input Surge Voltage (1 second)	50Vdc max.
Input Filter	Capacitor
Under Voltage Lockout	Power up .....8.1Vdc typ. Power down ..... 6.9Vdc typ.

#### OUTPUT SPECIFICATIONS

Constant Current Accuracy (note 1)	±5% max.
Current Line Regulation (note 2)	±5% typ.
Current Load Regulation (note 3)	±5% max.
Short Circuit Protection	Constant Current with Auto Recovery 150ms max.
Start Up Time	

#### DALI Control

Output Current Range	(Hybrid Dimming)..... 1%-100%
----------------------	-------------------------------

#### SAFETY AND EMISSIONS

EMI	EN55022/EN55015 Class B
EMS	EN61547, EN61000-4-2,3,4,5,6

#### GENERAL SPECIFICATIONS

Efficiency	See Table
Temperature Coefficient	±0.05%/°C (0-50°C)
Isolation Voltage	Non-isolation
Switching Frequency	40-700KHz.
Operating Ambient Temperature	-40-80°C (see Derating Curve)
Case Temperature	100°C max.
Cooling	Natural Convection
Storage Temperature	-55-125°C
Operating Humidity	10%-95%RH non-condensing
Operating Altitude Max.	3000m above sea level
Vibration	0-500Hz, 2G 60min./1cycle, period for 3hours, 3 axes 30g peak, half sine, 6 axes 700Khrs(typ)
Shock	MTBF, MIL-HDBK-217F (25°C)
Dimensions	1.6 x 0.93 x 0.40 inches (40.6 x 23.5 x 10.1 mm)
Weight	PIN / LW / T.....20g/23g/30g
Case Material	Plastic Case

#### NOTE

- 3V<Vin-Vout <20Vdc to keep current accuracy.
- Current line regulation is measured from high line to low line.
- Current load regulation is measured from high to low operating voltage.
- Suffix "LW" to the model number with wire type.
- Suffix "T" to the model number with terminal type and only meets IP20 Terminal: WAGO 250-108 or equivalent; wire range: 16-20 AWG.
- Acceptable customer modifications.
- IP65 for model: ALD-E035, ALD-E050, ALD-E070, ALD-E100, ALD-E140.  
IP64 for model: ALD-E035T, ALD-E050T, ALD-E070T, ALD-E100T, ALD-E140T.

# PDM PWM Dimming Module

Visit [www.cincon.com](http://www.cincon.com) for new releases and a wider selection of products

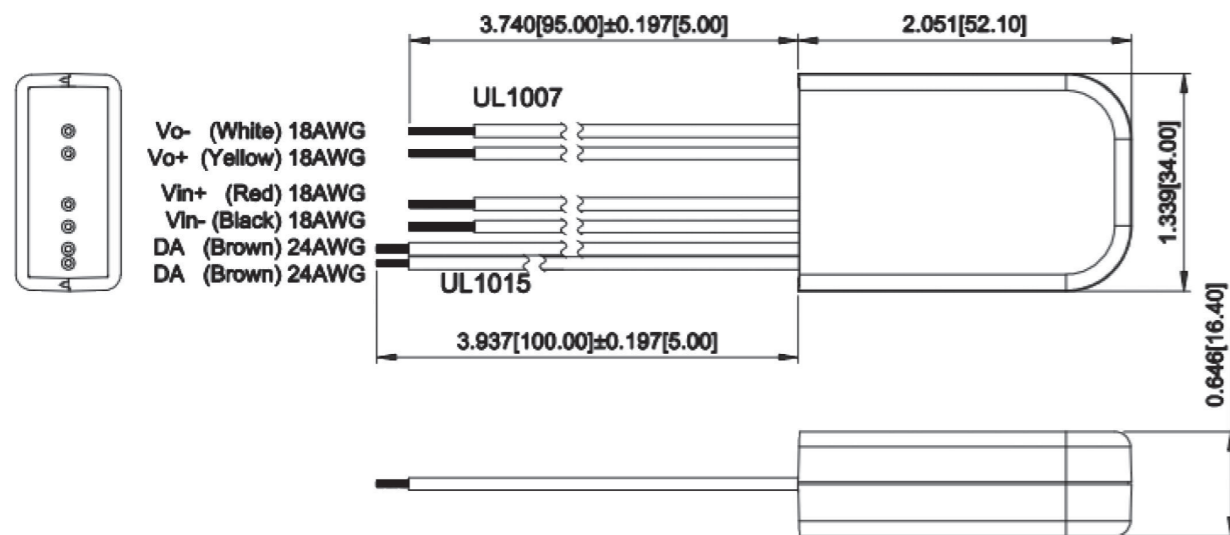
## Features

- ◆ For DALI systems
- ◆ PWM Mode Output
- ◆ Suitable for constant-voltage LED modules
- ◆ Over Current Protection
- ◆ DALI Dimming 1-100%

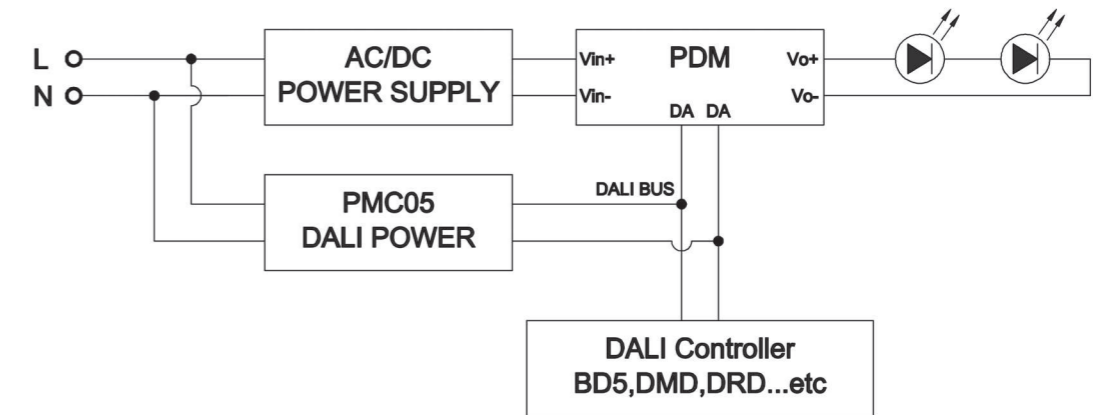


## Mechanical Dimensions

All Dimensions In Inches[mm]  
Tolerance Inches:x.xxx±0.02  
Millimeters: x.xx±0.5



## Installation Drawing



## Specifications

\* DALI LED driver extension must be used with power supply with current limiting of max 5A and proper short circuit protection.

### INPUT SPECIFICATIONS

Input Voltage Range : 10-50Vdc  
Input Current : 5A max.

### SAFETY AND EMISSIONS

Meet IEC 62386-101, 102, 207  
Meet IEC 55015 class B

### OUTPUT SPECIFICATIONS

Output Voltage : Output < Input Voltage  
Output Current : 0.35-5A  
Short Circuit Protection : Latch

### MECHANICAL CHARACTERISTICS

Case Material : SABIC 940(f1)  
Dimensions : 52.1 x 34.0 x 16.4mm  
Weight : 36g

### GENERAL SPECIFICATIONS

PWM Frequency : 1KHz  
Dimming Range : 1-100%  
Operating Temperature : -20-50°C

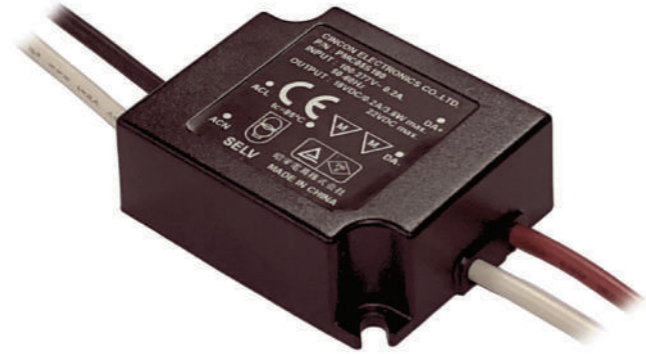
# PMC05S180

## 3.6 WATT DALI POWER SUPPLY

Visit [www.cincon.com](http://www.cincon.com) for new releases and a wider selection of products

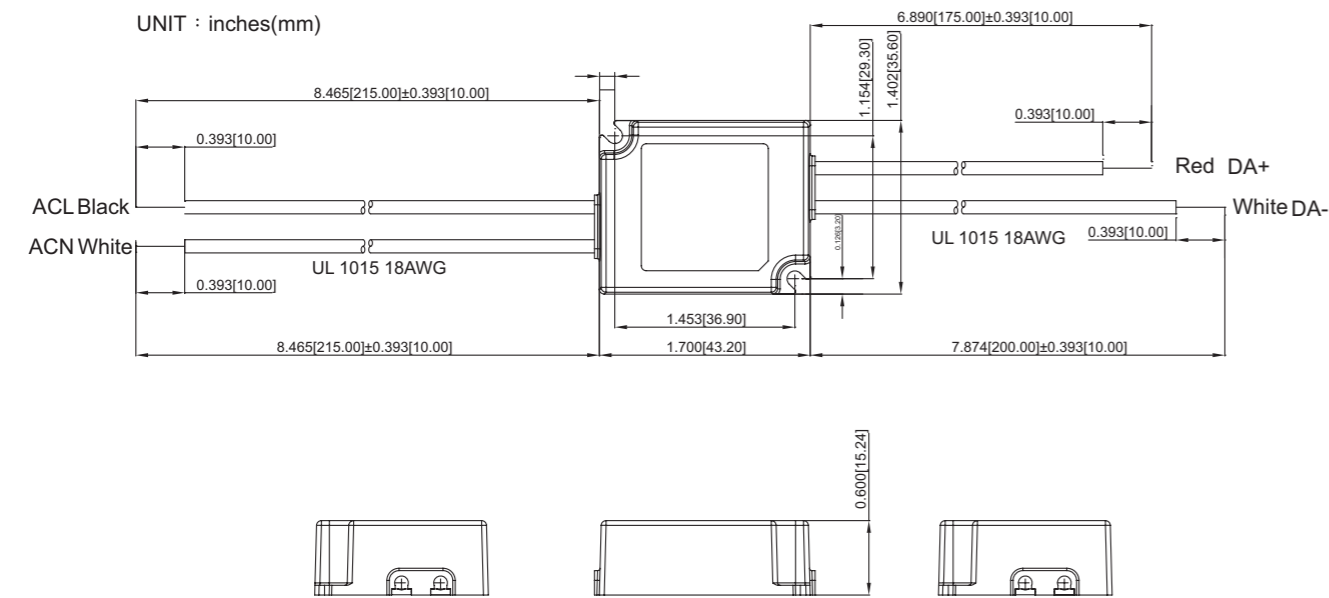
### Features

- ◆ Universal AC Input Range 90-305Vac
- ◆ Output Constant Current Design
- ◆ Continuous Short Circuit Protection
- ◆ EMC meet EN55022/EN55015 Class B
- ◆ Power Supply for DALI Systems (DALI Protocol) for Remote Mounting



### Mechanical Dimensions

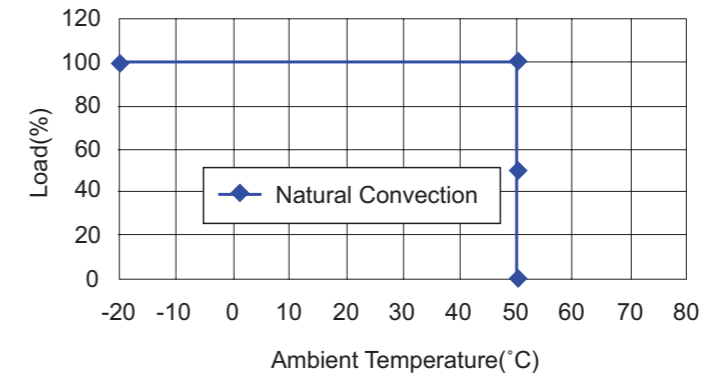
All Dimensions are in inches(mm)  
Tolerance:Inches:X.XXX±0.02  
Millimeters:X.XX±0.5



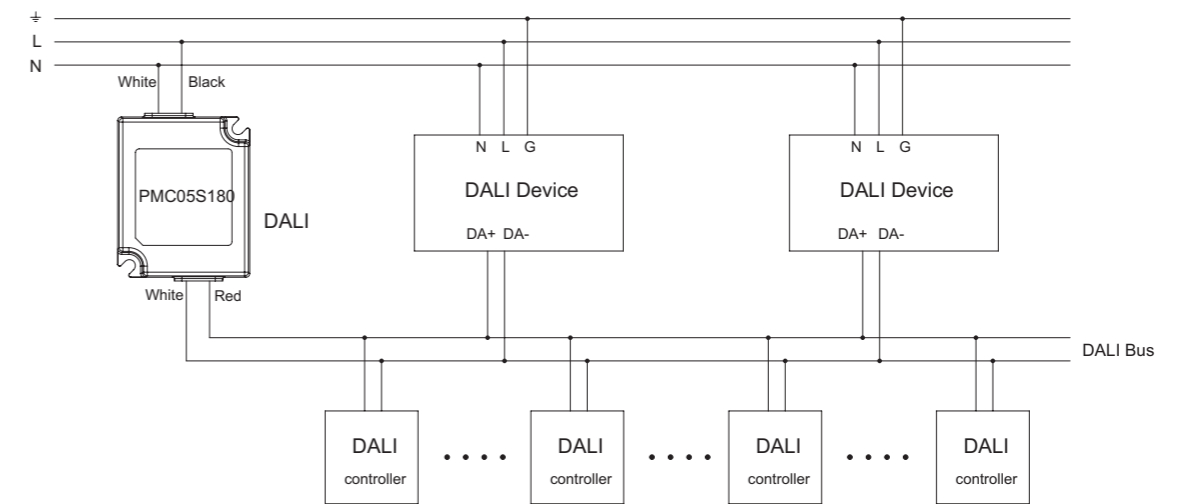
MODEL NUMBER	Input Voltage Range	Output Operating Voltage	Output Rated Current	Output Rated Power	Output Voltage Maximum	Ripple and Noise (max.) Note 2
PMC05S180	90-305 VAC	9.5-18 V	200 mA	3.6 W	22 V	1% Vo

Note:  
1. Nominal Input Voltage: 115Vac, 230Vac.  
2. Ripple and Noise are measured at rated current, 115Vac/ 230Vac, Vo=18Vdc and 20MHz bandwidth with a 0.1µF ceramic capacitor.  
3. Measured at rated current, 115Vac/ 230Vac, Vo=18Vdc.

### Derating Curve



### Installation Drawing



### Specifications

All specifications are typical values tested at the condition of nominal line, full load, and 25°C unless otherwise indicated

#### INPUT SPECIFICATIONS

AC Input Voltage	90-305Vac
Frequency	50 to 60Hz
Leakage Current	0.75mA max

#### OUTPUT SPECIFICATIONS

Output Voltage Accuracy at No Load	22V max.
Output Voltage Accuracy at full Load (note 1)	16V±10%.
Constant Current Accuracy	220mA±20mA
Current Line Regulation (note 2)	±5% max.
Over Voltage Protection	Voltage Clamp by TVS
Short Circuit Protection	Constant Current with Auto Recovery
Start Up Time	2.0 second max.

#### GENERAL SPECIFICATIONS

Isolation Voltage, Input to Output	3.75KVac
Isolation Resistance, Input to Output	10 <sup>8</sup> Ω min.
Operating Ambient Temperature	-20-50°C
Cooling	Natural Convection
Storage Temperature	-40-85°C
Operating Humidity	10%-80%RH non-condensing.
Operating Altitude	3000m
Vibration	0-500Hz, 2G 60min./1cycle, period for 3hours, 3 axes
Shock	30g peak, half sine, 6 axes

#### SAFETY AND EMISSIONS

EMI	EN55022/EN55015 Class B
EMS	EN61000-3-2 Harmonic Class A, EN61000-3-3
PSE	J61347-1, J61347-2-13, J55015
Dimensions	43.20 x 35.60 x 15.24 mm
Weight	30g
Case Material	Plastic

#### NOTE

1. Output voltage is measured at full load @25°C. (C.R mode 80Ω).
2. Current Line regulation is measured from High Line to Low Line at full load.

# BD5T

## Bluetooth Interface With Timer Function

Visit [www.cincon.com](http://www.cincon.com) for new releases and a wider selection of products

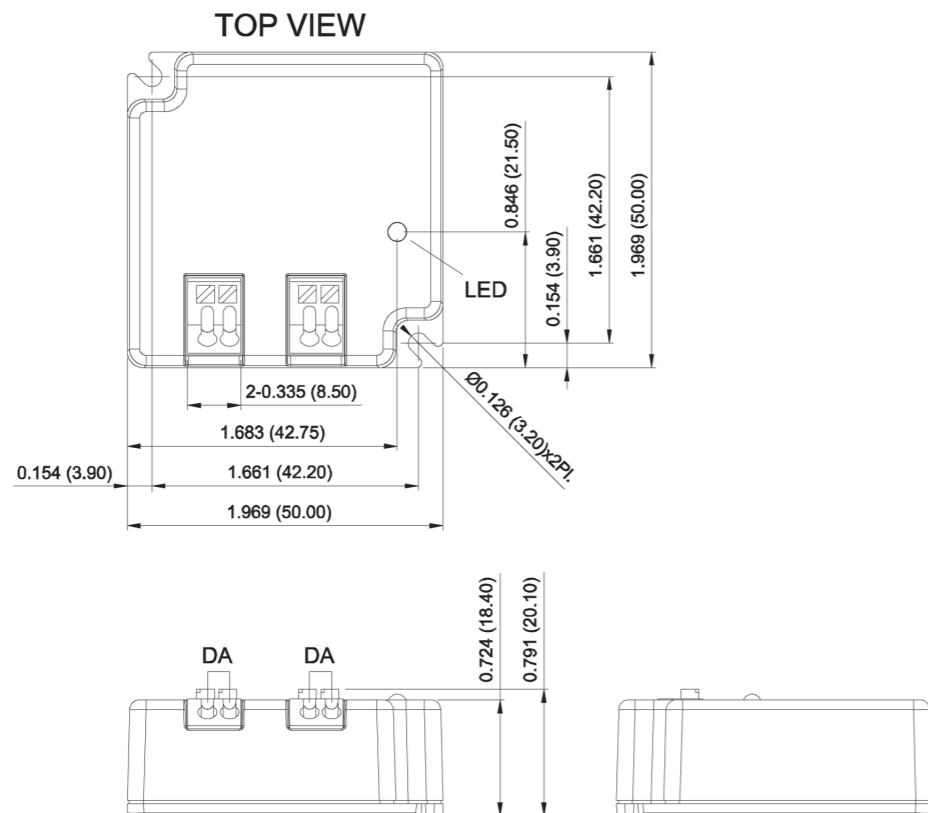
### Features

- ◆ Bluetooth 4.0 wireless for DALI systems
- ◆ Simple control through iDALI APP
- ◆ Easy system setting via iDALI Pro APP
- ◆ Capable of multiple BD5T parallel connection
- ◆ Automatic data synchronization among all connected BD5Ts
- ◆ Max. and min. brightness level setting, Fade time, Dimming, ON/OFF, Scene storing and recalling
- ◆ Programmable scene schedule available when working with PST
- ◆ Powered by DALI Bus

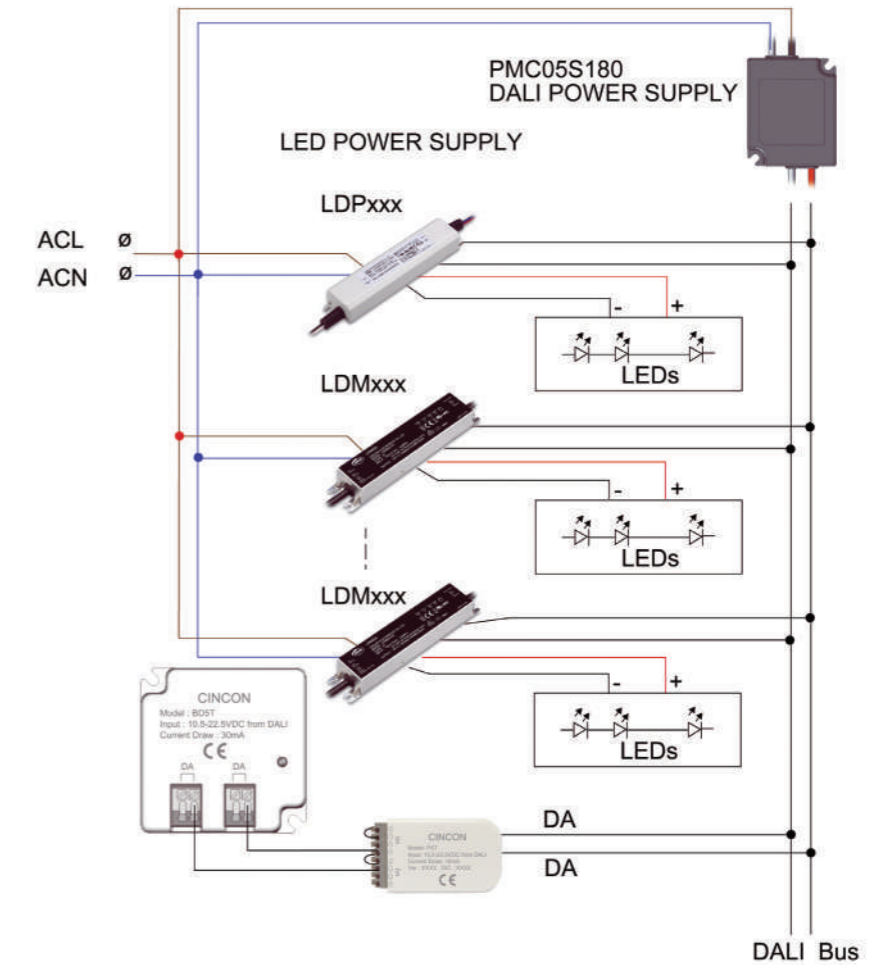


### Mechanical Dimensions

All Dimensions are in inches(mm)  
Tolerance:Inches:X.XXX±0.02  
Millimeters:X.XX±0.5



### Installation Drawing



BD5T is a bluetooth interface between your DALI lighting and iDALI APP on your mobile phone.

### Specifications

#### INPUT SPECIFICATIONS

Power input via DALI bus: 10.5-22.5Vdc  
Current draw: 30mA from DALI  
Effective Distance : Bluetooth 4.0 wireless technology requires iOS 6 or later/ Android 4.4 or later  
10m (Open area)

#### GENERAL SPECIFICATIONS

Operating Ambient Temperature: 0-50°C  
Storage Temperature: -40-85°C  
Operating Humidity: 10%-80%RH non-condensing  
Case material: PC  
Weight: 30g  
Dimensions: 50mm x 50mm x 20.1mm  
Connecting wire cross section: 28-16 AWG / 0.5-1.5 mm<sup>2</sup>, solid or stranded wire.

#### NOTE

1. iDALI app in the App Store and Google play store is for free download (select iPhone app when you use iPad to search )
2. BD5T Initialize setting time: 160s for DALI data synchronization and collection.  
BD5T Power on / Start-up time: 30s for DALI data synchronization and collection.
3. PST is required for programmable scene schedule function.



# PST

## Programmable Scene Timer

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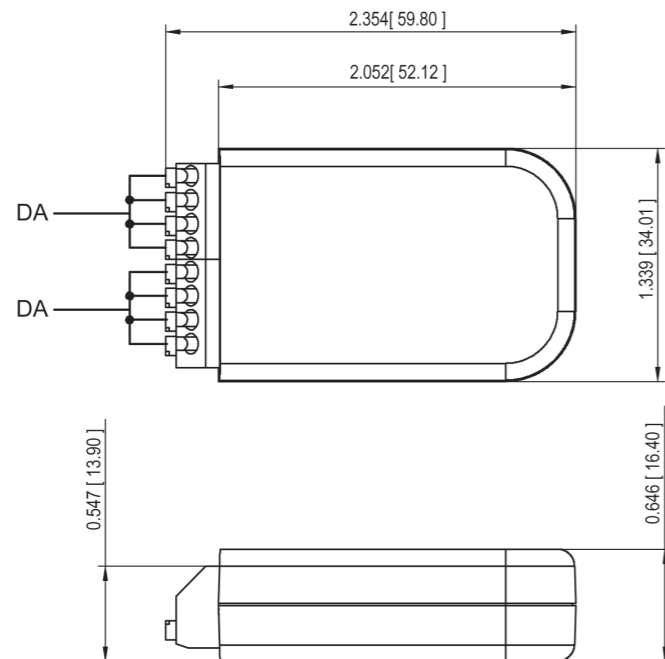
### Features

- ◆ For DALI System
- ◆ Programmed by iDALI App
- ◆ Powered by DALI Bus
- ◆ Up to 16 Programmable Schedules
- ◆ Repeatable Weekly Schedule Available
- ◆ Automatic Time Sync While Connected to APP

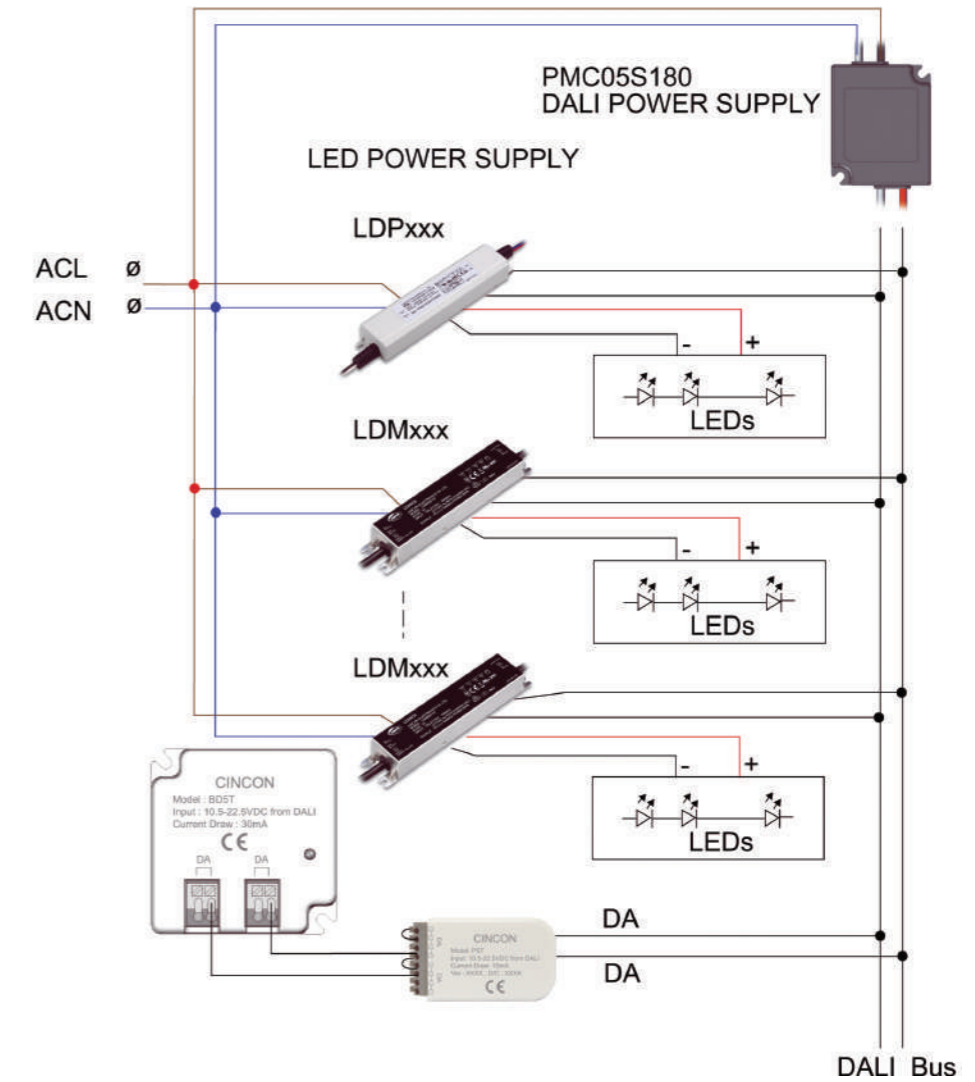


### Mechanical Dimensions

All Dimensions are in inches(mm)  
Tolerance:Inches:X.XXX±0.02  
Millimeters:X.XX±0.5



### Installation Drawing



BDST is a bluetooth interface between your DALI lighting and iDALI APP on your mobile phone.

### Specifications

#### INPUT SPECIFICATIONS

Power input via DALI bus: 10.5-22.5Vdc  
Current draw: 10mA from DALI

#### GENERAL SPECIFICATIONS

Operating Ambient Temperature: 0-50°C  
Storage Temperature: -40-85°C  
Operating Humidity: 10%-80%RH non-condensing  
Case material: PC  
Weight: 25g  
Dimensions: 59.8mm x 34mm x 16.4mm  
Connecting wire cross section: 28-16 AWG / 0.5-1.5 mm<sup>2</sup>, solid or stranded wire.

#### NOTE

1. BDST is required to work with.
2. PST can ONLY work together with BDST, not BDS.

# DMD-150A

## SCENE CONTROLLER

Visit [www.cincon.com](http://www.cincon.com) for new releases and a wider selection of products

### Features

- ◆ For DALI systems
- ◆ On/Off switchable function
- ◆ Green LED locator light
- ◆ Automatic synchronization among control units without disturbing effects (Brightness, ON/ OFF)
- ◆ Recall up to 8 lighting scenes
- ◆ Power supply via DALI bus
- ◆ Suitable for single area lighting control



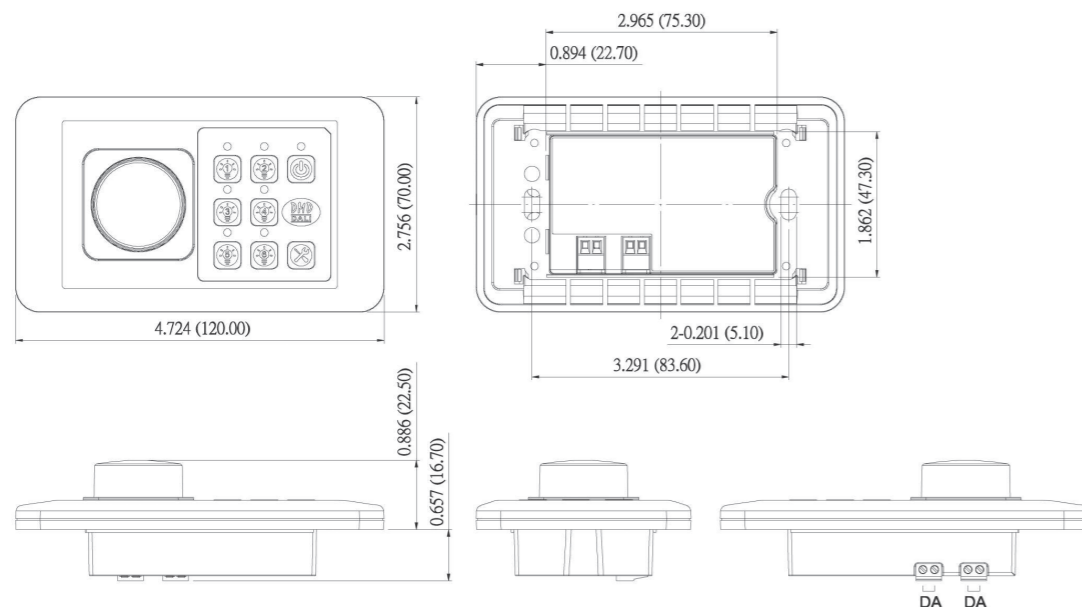
### Operation

- ↓ Power On/Off - Press
- ↻ Brightness decrease - Rotate Left
- ↻ Brightness increase - Rotate Right
- 🏠 Recall Scene 1- 8

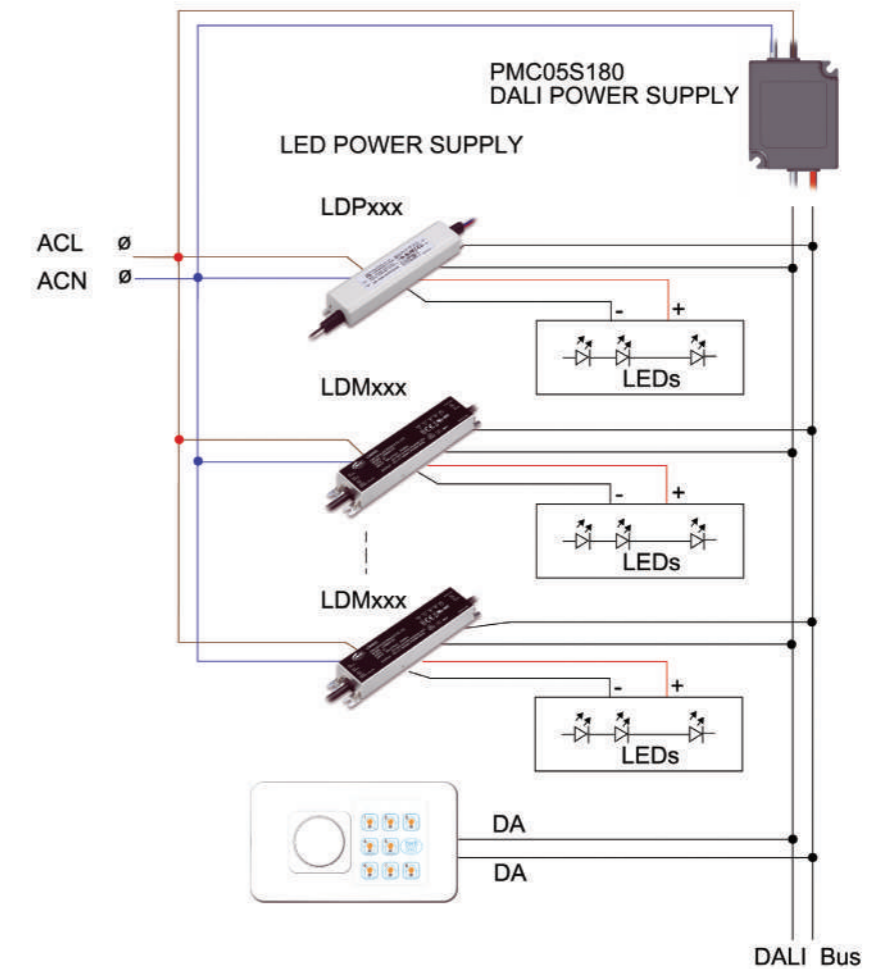


### Mechanical Dimensions

All Dimensions are in inches(mm)  
Tolerance:Inches:X.XXX±0.02  
Millimeters:X.XX±0.5



### Installation Drawing



### Specifications

#### INPUT SPECIFICATIONS

Power input via DALI bus: 10.5-22.5Vdc  
Current draw: 25mA from DALI

#### GENERAL SPECIFICATIONS

Operating Ambient Temperature: 0-50°C  
Storage Temperature: -40-85°C  
Operating Humidity: 10%-80%RH non-condensing  
Case material: ABS  
Weight: 97g  
Dimensions: 120mm x 70 mm x 39.6mm  
Connecting wire cross section: 28-16 AWG / 0.5-1.5 mm<sup>2</sup>, solid or stranded wire.

#### NOTE

- 1) Scene1 represents the Scene0 in the DALI standard.
- 2) Before getting started to use DMD-150A, please set a scene first.
- 3) It requires the BDS/BDST (with iDALI APP) to create a scene.
- 4) To know how to set a scene, see page 13 on BDS/BDST User Manual

# DMD-160AT

## Touch Scene Controller

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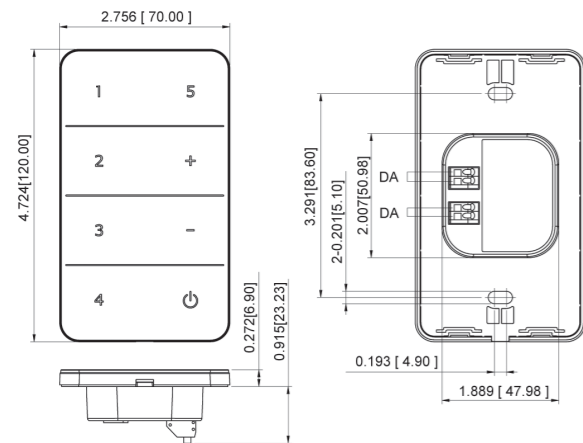
### Features

- ◆ For DALI System
- ◆ Using Capacitive Touch
- ◆ On/Off Switchable Function
- ◆ LED Locator Light
- ◆ Automatic Synchronization Among Control Units Without Disturbing Effects (Brightness, On/Off)
- ◆ Recall up to 5 Lighting Scenes
- ◆ Power Supply Via DALI Bus
- ◆ Suitable for Single Area Lighting Control

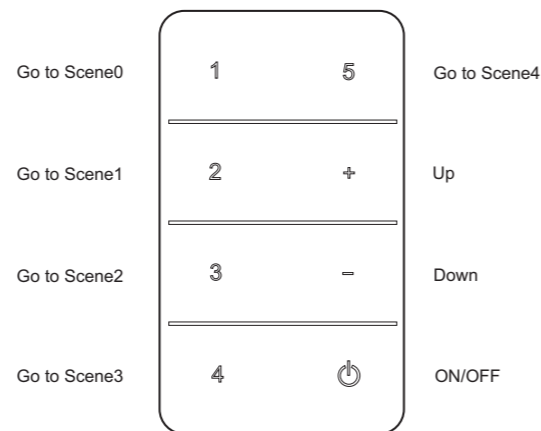


### Mechanical Dimensions

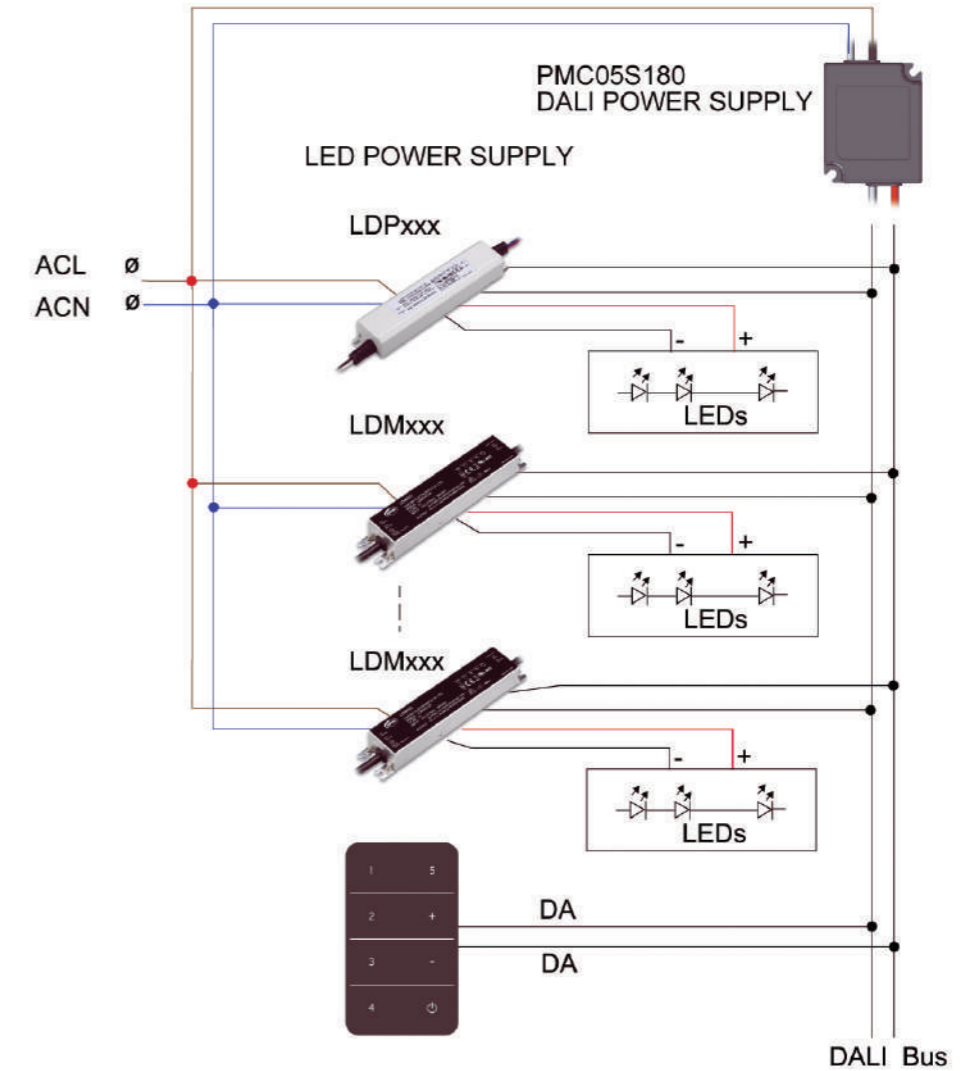
All Dimensions are in inches(mm)  
Tolerance:Inches:X.XXX±0.02  
Millimeters:X.XX±0.5



### Operation



### Installation Drawing



### Specifications

#### INPUT SPECIFICATIONS

Power input via DALI bus: 10.5-22.5Vdc  
Current draw: 25mA from DALI

#### General Specifications

Operating Ambient Temperature: 0-50°C  
Storage Temperature: -40-85°C  
Operating Humidity: 10%-80%RH non-condensing  
Case material: PC  
Weight: 75g  
Dimensions: 120mm x 70mm x 30.13mm  
Connecting wire cross section: 28-16 AWG / 0.5-1.5 mm<sup>2</sup>, solid or stranded wire.

# DRD-E SERIES

## Digital Rotary Dimmer

Visit [www.cincon.com](http://www.cincon.com) for new releases and a wider selection of products

### Features

- ◆ For DALI systems
- ◆ Available for assigned group mode / broadcast mode
- ◆ On/Off switchable function
- ◆ Green LED locator light
- ◆ Automatic synchronization makes it possible to change the control location without disturbing effects (Brightness, ON/OFF)
- ◆ Minimum Brightness Setting
- ◆ Power supply via DALI bus
- ◆ American Standard Type Available



### DRD-E Operation

- ◆ On/Off - Press
- ◆ Brightness decrease-Rotate Left
- ◆ Brightness increase-Rotate Right

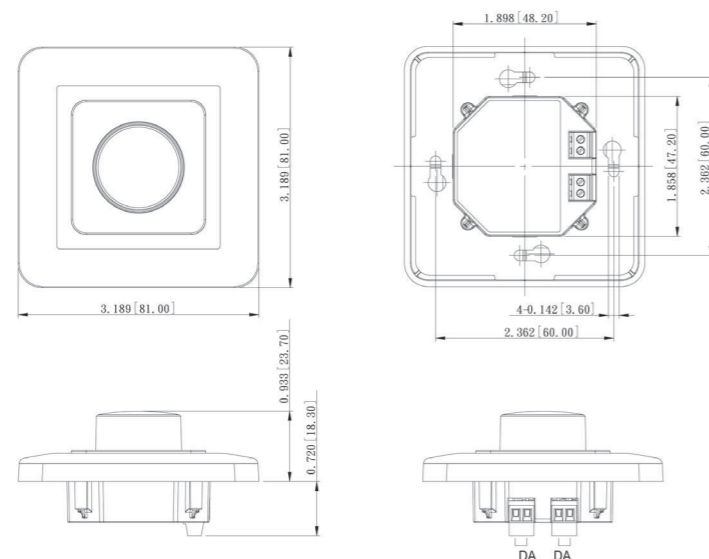


### Function

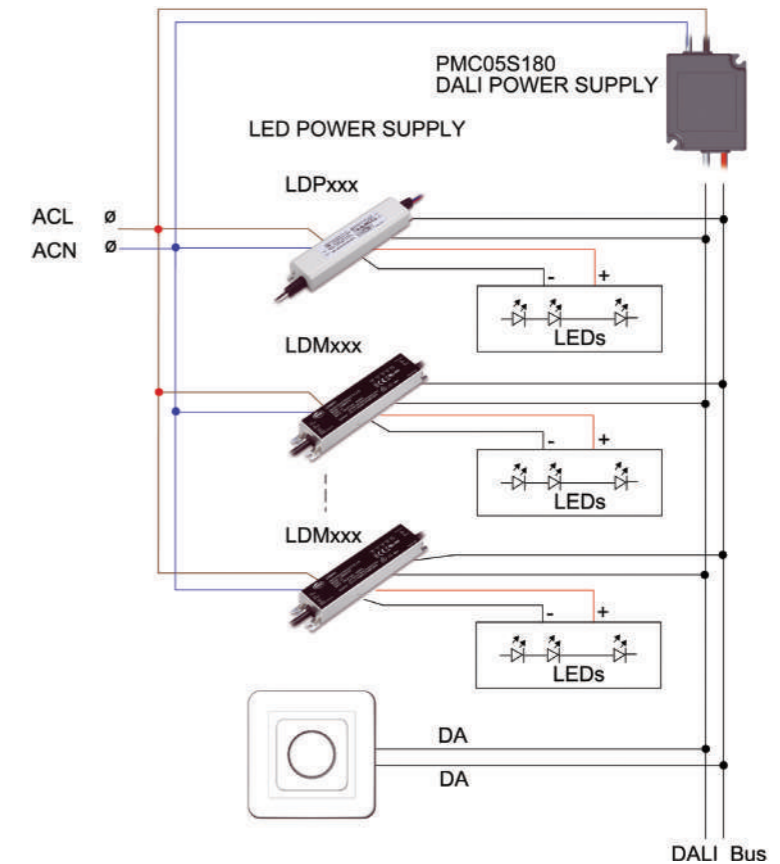
Dimming(Direct Arc Power Control) / Minimum Brightness setting

### MECHANIC DRAWING

All Dimensions In Inches(mm)  
Tolerance Inches:x.xx=±0.02  
Millimeters: x.xx=±0.5



### Installation Drawing



### Specifications

1. Power input via DALI bus: 10.5-22.5Vdc
2. Current draw: 15mA form DALI
3. Operating Temperature: 0-50°C

### Setting Group or Broadcast mode



Note: Group1 represents the Group0 in the DALI standard.

0	1	2	3
Broadcast	Group1	Group2	Group3
4	5	6	7
Group4	Group5	Group6	Group7
8	9	A	B
Group8	Group9	Group10	Group11
C	D	E	F
Group12	Group13	Group14	Group15

# MDS SERIES

## Motion Detection Sensor

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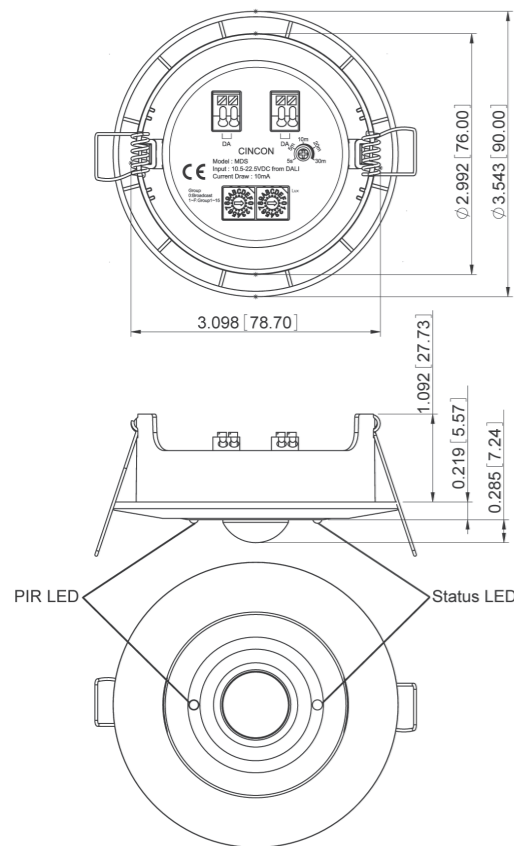
### Features

- ◆ Motion detection sensor for DALI lighting systems
- ◆ Powered by DALI Bus
- ◆ Simple group assignment via rotary switch
- ◆ Use a high sensitivity PIR sensor
- ◆ Light Sensor

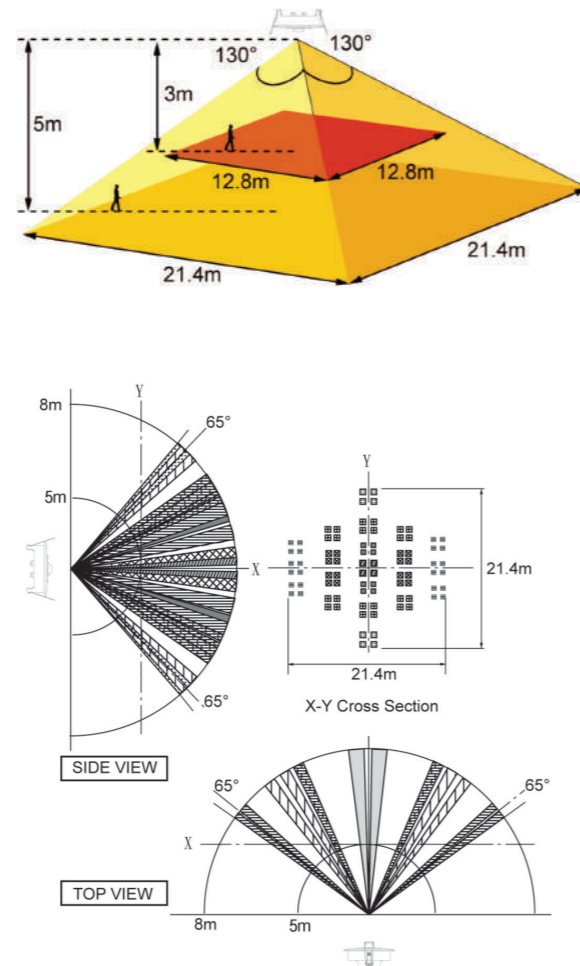


### Mechanical Specification

All Dimensions in Inches (mm)  
 Tolerance Inches: X.XXX=±0.02  
 Millimeters: X.XX=±0.5

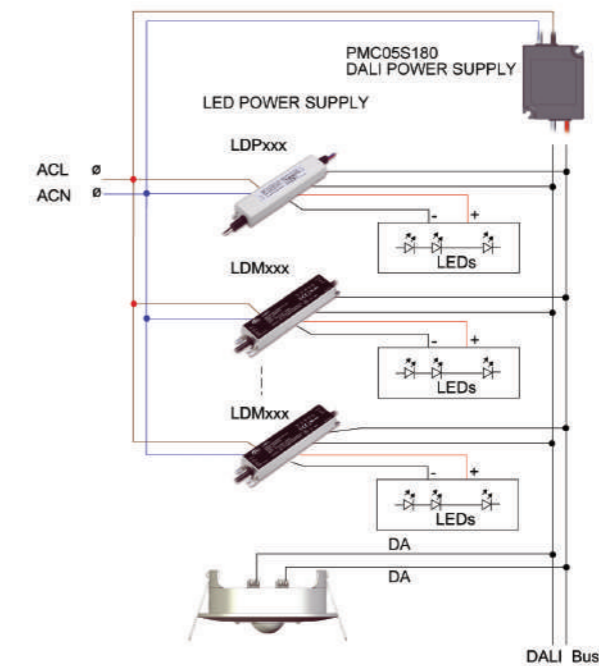


### Motion detection area



Note: The lux value measured by the sensor is determined by different factors such as room height, type of furniture and the material of the floor.

### Installation



### Specifications

#### INPUT SPECIFICATIONS

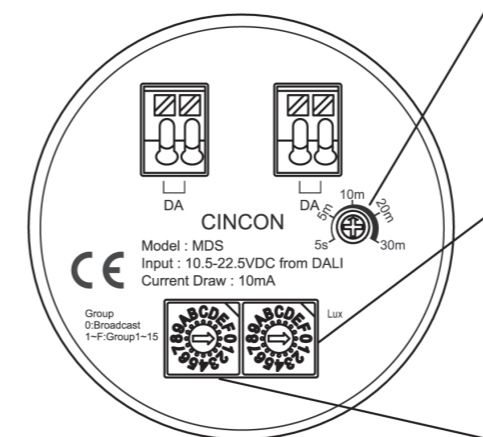
Power input via DALI bus: 10.5-22.5Vdc  
 Current draw: 10mA from DALI

Weight: 58g  
 Dimensions: 90mm x 90mm x 40.54mm  
 Connecting wire cross section: 28-16 AWG / 0.5-1.5 mm<sup>2</sup>, solid or stranded wire.  
 Motion Detection distance: 8m Max.  
 Light sensor regulation range: 25-600 lux

#### GENERAL SPECIFICATIONS

Operating Ambient Temperature: 0-50°C Storage  
 Temperature: -40-85°C  
 Operating Humidity: 10%-80%RH non-condensing  
 Case material: PC

### MDS Operation



\* Time Delay Time: 5secs-30mins

\* Lux Illuminance sensor-based

0	1	2	3	4	5	6	7
25lux	50lux	75lux	100lux	125lux	150lux	175lux	200lux
8	9	A	B	C	D	E	F
250lux	300lux	350lux	400lux	450lux	500lux	550lux	Auto lux

Note: Auto lux function memorizes the lux value measured by the sensor for 5 seconds after user stops dimming the dimmer.

\* Group Group represents the Group in the DALI standard.  
 0: Broadcast, 1-F: Group0-14

0	1	2	3	4	5	6	7
Broadcast	Group0	Group1	Group2	Group3	Group4	Group5	Group6
8	9	A	B	C	D	E	F
Group7	Group8	Group9	Group10	Group11	Group12	Group13	Group14

## LDP15 SERIES



### Ordering Information

Series	Output Code	Single Code	Rated Output Voltage ( max.)	Dimming Function Current ( max.)	Rated Output	Option
LDP	15	a	b	c	d e f	
LDP	15	S: Single O/P	420: 42V	C: No dim D: DALI dim	035 : 350 mA	Blank: No PSE logo (PSE): PSE logo
			290: 29V		050 : 500 mA	
			210: 21V		070 : 700 mA	

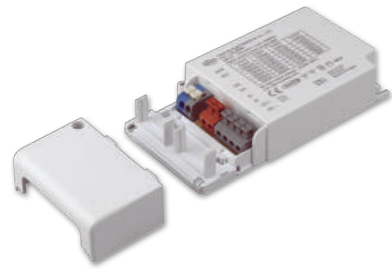
## LDL40 SERIES



### Ordering Information

Series	Model	Dimming Function	AC Input Range
LDL	40	X	X
LDL	40	D : DALI + Current Setting	E: 200-264Vac U: 90-264Vac

## LDL25 SERIES



### Ordering Information

Series	Model	Dimming Function	AC Input Range
LDL	25	X	X
LDL	25	D : DALI + Current setting	E: 200-264Vac U: 90-264Vac

## LDP40 SERIES



### Ordering Information

Series	Output(W)	IP Code	Output Voltage	Dimming Function	Rated Output Current	Input Voltage	Ripple Noise
LDP	40	X	XXX	X	XXX	B	X
LDP	40	S: Single O/P with IP64	240: 24V	C: No dimming D: DALI dimming P: PWM 1-10V, Potentiometer	24V 170: 1700mA 140: 1400mA	B: 100-277 Vac	R: 1% output ripple and noise or Blank: 10% output ripple and noise
			360: 36V 480: 48V		36V 111: 1110mA 105: 1050mA 48V 084: 840mA 070: 700mA		
LDP	40	A: Single O/P with IP67	240: 24V	C: No dimming D: DALI dimming P: PWM 1-10V, Potentiometer	24V 170: 1700mA 140: 1400mA	B: 100-277 Vac	R: 1% output ripple and noise or Blank: 10% output ripple and noise
			360: 36V 480: 48V		36V 111: 1110mA 105: 1050mA 48V 084: 840mA 070: 700mA		

## LDP25 SERIES



### Ordering Information

Series	Output(W)	IP Code	Output Voltage	Dimming Function	Rated Output Current	Input Voltage	Ripple Noise
LDP	25	X	XXX	X	XXX	B	X
LDP	25	S: Single O/P with IP64	240: 24V	C: No dimming P: PWM/1-10V	24V 110: 1100mA 105: 1050mA 070: 700mA	B: 100-277 Vac	R: 1% output ripple and noise or Blank: 10% output ripple and noise
			360: 36V 480: 48V		36V 070: 700mA 48V 053: 530mA 035: 350mA		
LDP	25	A: Single O/P with IP67	240: 24V	C: No dimming P: PWM/1-10V	24V 110: 1100mA 105: 1050mA 070: 700mA	B: 100-277 Vac	R: 1% output ripple and noise or Blank: 10% output ripple and noise
			360: 36V 480: 48V		36V 070: 700mA 48V 053: 530mA 035: 350mA		

## LDP60 SERIES



### Ordering Information

Series	Output(W)	IP Code	Output Voltage	Dimming Function	Rated Output Current	Input Voltage	Ripple Noise
LDP	60	X	XXX	X	XXX	B	X
LDP	60	A: Single O/P with IP67	240: 24V	C: No dimming D: DALI dimming P: PWM 1-10V, Potentiometer	24V 250: 2500mA 210: 2100mA 175: 1750mA	B: 100-277 Vac	R: 1% output ripple and noise or Blank: 10% output ripple and noise
			360: 36V 480: 48V		36V 166: 1666mA 140: 1400mA 48V 125: 1250mA 105: 1050mA		
LDP	60	B: Dual O/P with IP67	240: 24V	C: No dimming D: DALI dimming P: PWM 1-10V, Potentiometer	24V 125: 1250mA 105: 1050mA	B: 100-277 Vac	R: 1% output ripple and noise or Blank: 10% output ripple and noise
			360: 36V 480: 48V		36V 083: 833mA 070: 700mA 48V 062: 625mA		

## LDM60S SERIES



### Ordering Information

LDM60SXXX XXX = Output Voltage	-	XX Optional Type
120: 12Vout		01: Constant Current Mode (IP67) No dimming
240: 24Vout		No adjustment for output voltage and output current
360: 36Vout		02: Constant Current Mode (IP65) No dimming
480: 48Vout		With adjustment for output voltage and output current
		03: Constant Current Mode (IP67) Dimming: 1-10Vdc and Resistance
		No adjustment for output voltage and output current
		03A: Constant Current Mode (IP65) Dimming: 1-10Vdc and Resistance
		With adjustment for output voltage and output current
		04: Constant Current Mode (IP67) Dimming: DALI
		No adjustment for output voltage and output current
		04A: Constant Current Mode (IP65) Dimming: DALI
		With adjustment for output voltage and output current

## LDM100S SERIES



### Ordering Information

LDM100SXXX XXX = Output Voltage	-	XX Optional Type
120: 12Vout		01: Constant Current Mode (IP67) No dimming
240: 24Vout		No adjustment for output voltage and output current
360: 36Vout		02: Constant Current Mode (IP65) No dimming
480: 48Vout		With adjustment for output voltage and output current
		03: Constant Current Mode (IP67) Dimming: 1-10Vdc and Resistance
		No adjustment for output voltage and output current
		03A: Constant Current Mode (IP65) Dimming: 1-10Vdc and Resistance
		With adjustment for output voltage and output current
		04: Constant Current Mode (IP67) Dimming: DALI
		No adjustment for output voltage and output current
		04A: Constant Current Mode (IP65) Dimming: DALI
		With adjustment for output voltage and output current

## LDA100S SERIES



### Ordering Information

LDA100SXXX XXX = Output	-	XX Optional Type
142: 142V / 0.7A		01: Constant Current Mode (IP67) No dimming
214: 214V / 0.5A		
214A: 214V / 0.35A		03: Constant Current Mode (IP67) Dimming: 1-10Vdc and Resistance
		04: Constant Current Mode (IP67) Dimming: DALI

	The Digital Illumination Interface Alliance (DiiA) is a global party formed by lighting companies and led driver manufacturers. Cincon is the associate member.
	DALI (Digital Addressable Lighting Interface) is a world-wide standard for lighting control communications. DALI standard is technically managed under the International Electro-technical Commission IEC 62386.
	DALI-2 is the version 2 of the DALI standard IEC 62386, which improves interoperability. DALI-2 also includes control devices for the first time. Several new certification phases will come out in Q1 2018 according to DiiA.
	According to DIN VDE 0710-14, Cincon LED power supplies can be fitted on wooden material but needs to be kept clear with surrounding.
<b>IP67</b>	CINCON AC-DC LED power supplies have dust/water proof design, primarily based on international standard IEC60529. Description of IP67 levels can be defined-6: Dust tight, 7: Protection against temporary immersion in water (30 minutes, 1m below surface).
	Safety isolation and short circuit proof control gear.
	Stands for independent control gear.
	CINCON AC-DC LED Driver can be installed in normally flammable materials surface, such as Wood.
	Protection against overheating to prevent the lamp control gear case temperature under any conditions of use from exceed the indicated value (110°C)
<b>tc:90°C</b> <b>ta:50°C</b>	tc=case temperature, ta= ambient temperature. CINCON AC-DC LED Driver case temperature spot tc should not exceed 90°C at full load condition under in 50°C ambient temperature.
<b>Class 2</b>	Due to its power limitations, a Class 2 circuit considers safety from a fire initiation standpoint and provides acceptable protection from electric shock.

# QUICK SELECTION GUIDE

AC/DC											
Model	PFC	AC input range	C.C or C.V	Watt	Dimming	Vo / lo adj.	Eff Typ.	Potted	Safty Approval	Note	Page
LDP15-C		90-264 VAC	C.C	15	N/A	Fixed	83%		CB,CE,PSE		2
LDP15-D		90-264 VAC	C.C	15	DALI	Fixed	83%		CB,CE,PSE		2
LDL25	•	90-264 VAC	C.C	25	DALI 2	lo	87%		CB,CE,ENEC	1-100% Dimming range	4
LDP25S	•	90-305 VAC	C.C	25	3 in 1	Fixed	Up to 88%		CE, UL		6
LDP25A	•	90-305 VAC	C.C	25	3 in 1	Fixed	Up to 88%	•	CE, UL		6
LDL40	•	90-264 VAC	C.C	40	DALI 2	lo	87%		CB,CE,ENEC	1-100% Dimming range	8
LDP40S	•	90-305 VAC	C.C	40	DALI / 3 in 1	Fixed	Up to 86%		CE, UL		10
LDP40A	•	90-305 VAC	C.C	40	DALI / 3 in 1	Fixed	Up to 86%	•	CE, UL		10
LDP60A	•	90-305 VAC	C.C	60	DALI / 3 in 1	Fixed	Up to 88%	•	CE, UL		12
LDP60B	•	90-305 VAC	C.C	60	DALI / 3 in 1	Fixed	Up to 88%	•	CE, UL		12
LDM60	•	90-305 VAC	C.C + C.V	60	DALI / 3 in 1	Vo & lo	Up to 90%	•	CE, UL, Class 2		14
LDM100	•	90-305 VAC	C.C + C.V	100	DALI / 3 in 1	Vo & lo	Up to 90%	•	CE, UL		16
LDA100	•	90-305 VAC	C.C + C.V	100	DALI / 3 in 1	Fixed	Up to 90%	•	CE, UL, ENEC	High Vout Type	18

\*DALI and 3 in 1 dimming are different models  
 \*For more details, please refer to the specification and ordering information of each model."

DC/DC											
Model	DC input range	C.C or C.V	Watt	Dimming	Vo / lo adj.	Eff Typ.	Potted	Safty Approval	Note	Page	
ALD-D	6-50 VDC	C.C	Up to 50W	DALI	Fixed	95%	•	CE		20	
ALD-E	11-50 VDC	C.C	Up to 50W	DALI	Fixed	95%	•	CE	1-100% Dimming range	22	

\*For more details, please refer to the specification and ordering information of each model.

Model	DC input range	C.C or C.V	Input Current	Dimming	Vo / lo adj.	PWM Freq.	Potted	Safty Approval	Note	Page
PDM	10-50 VDC	C.V	5A Max.	DALI	Fixed	1KHz	•	CE	1-100% Dimming range	24

\*For more details, please refer to the specification and ordering information of each model.

Controller & Accessory						
Model	DC input range	Current Draw (mA)	Dimming	Safty Approval	Note	Page
BD5T	10.5-22.5 VDC	30	DALI	CE	DALI wireless controller with iDALI APP	28
PST	10.5-22.5 VDC	10	DALI	CE	Timer function required to work with BD5T	30
DMD-150A	10.5-22.5 VDC	25	DALI	CE	DALI Scene Controller	32
DMD-160AT	10.5-22.5 VDC	25	DALI	CE	DALI Scene Controller with touch panel	34
DRD	10.5-22.5 VDC	15	DALI	CE	DALI Dimmer	36
MDS	10.5-22.5 VDC	10	DALI	CE	DALI Sensor Motion Detection & Light Regulation	38

\*For more details, please refer to the specification and ordering information of each model.

Model	AC input range	Output Current(mA)	Watt	Safty Approval	Note	Page
PMC05S180	90-305 VAC	200	3.6W	CE, PSE	DALI Power Supply	26



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