

HASTECH

2024
OSRAM

www.hastechind.com

LINEER DRIVERLAR

OSRAM

- EM FIT 18W-350MA (200-250-300-350MA)
- EM FIT 40W-350MA (200-250-300-350MA)
- EM FIT 60W-350MA (200-250-300-350MA)
- EM FIT 60W-1200MA (900-1050-1100-1200MA)
- EM FIT 75W-550MA (350-400-500-550MA)
- EM FIT 75W-1600MA (1300-1400-1500-1600MA)
- OT FIT 100W-750MA (250...750MA)

EM FIT 18W-350MA DRIVER

OSRAM

EM FIT 18 / 220 – 240 / 350 D CS L

Constant Current LED Power Supply

200mA - 250mA - 300mA - 350mA

ELEMENT linear LED Power Supply is the reliable choice
for linear and area fixtures for office - industrial - shop lighting;

Benefits

Flexible with 1 driver offers 4 output currents;

Simple current selection via dip switch

Enable slim fixture design with flat 21mm height metal housing

Very high efficiency up to 88%

OSRAM quality and reliability



- 18W-350MA lineer sürücü
- 200-250-300-350ma olarak dipswitch ile akım ayarı
- SELV
- 27-54V
- 35000-50000 saate kadar çalışma ömrü
- Flicker Free (Low ripple < 10%)
- Power factor ≥ 0.95
- 3 Yıl Garanti

EM FIT 40W-350MA DRIVER

OSRAM

EM FIT 40 / 220 – 240 / 350 D CS L

Constant Current LED Power Supply

200mA - 250mA - 300mA- 350mA

ELEMENT linear LED Power Supply is the reliable choice
for linear and area fixtures for office - industrial - shop lighting;

Benefits

Flexible with 1 driver offers 4 output currents;
Simple current selection via dip switch
Enable slim fixture design with flat 21mm height metal housing
Very high efficiency up to 90%
OSRAM quality and reliability



- 40W-350MA lineer sürücü
- 200-250-300-350ma olarak dipswitch ile akım ayarı
- Non-isolated
- 40-120V
- 35000-50000 saate kadar çalışma ömrü
- Flicker Free (Low ripple < 10%)
- Power factor ≥ 0.95
- 3 Yıl Garanti

EM FIT 40W-800MA DRIVER

OSRAM

EM FIT 40 / 220 – 240 / 800 CS L

Constant Current LED Power Supply

500mA - 600mA - 700mA- 800mA

ELEMENT LED Power Supply is the reliable choice for linear and area fixtures for office - industrial - shop lighting

Benefits

Flexible with 1 driver offers 4 output currents;

High quality light with very low ripple;

Very high efficiency up to 87%

Enable slim fixture design with flat 21mm height metal housing

Long lasting and high reliability

SELV driver



- 40W-800MA lineer sürücü
- 500-600-700-800ma olarak dipswitch ile akım ayarı
- SELV
- 27-51V
- 35000-50000 saate kadar çalışma ömrü
- Flicker Free (Low ripple < 10%)
- Power factor ≥ 0.95
- 3 Yıl Garanti

EM FIT 60W-350MA DRIVER

OSRAM

EM FIT 60 / 220 – 240 / 350 D CS L

Constant Current LED Power Supply

200mA - 250mA - 300mA- 350mA

ELEMENT LED Power Supply is the reliable choice for linear and area fixtures for office - industrial - shop lighting

Benefits

Flexible with 1 driver offers 4 output currents;

High quality light with very low ripple;

Very high efficiency up to 91%

Enable slim fixture design with flat 21mm height metal housing

Long lasting and high reliability



- 60W-350MA lineer sürücü
- 200-250-300-350ma olarak dipswitch ile akım ayarı
- Non-isolated
- 90-175V
- 35000-50000 saate kadar çalışma ömrü
- Flicker Free (Low ripple < 10%)
- Power factor ≥ 0.95
- 3 Yıl Garanti

EM FIT 60W-1200MA DRIVER

OSRAM

EM FIT 60 / 220 – 240 / 1200 CS L

Constant Current LED Power Supply

900mA - 1050mA - 1100mA- 1200mA

ELEMENT LED Power Supply is the reliable choice for linear and area fixtures for office - industrial - shop lighting

Benefits

Flexible with 1 driver offers 4 output currents;

High quality light with very low ripple;

Very high efficiency up to 88%

Enable slim fixture design with flat 21mm height metal housing

Long lasting and high reliability

SELV driver



- 60W-1200MA lineer sürücü
- 900-1050-1100-1200ma olarak dipswitch ile akım ayarı
- Selv driver
- 27-51V
- 35000-50000 saate kadar çalışma ömrü
- Flicker Free (Current ripple 100Hz < 10)
- Power factor ≥ 0.95
- 3 Yıl Garanti

EM FIT 75W-550MA DRIVER

OSRAM

EM FIT 75 / 220 – 240 / 550 D CS L

Constant Current LED Power Supply

350mA - 400mA - 500mA- 550mA

ELEMENT LED Power Supply is the reliable choice for linear and area fixtures for office - industrial - shop lighting

Benefits

Flexible with 1 driver offers 4 output currents;

High quality light with very low ripple;

Very high efficiency up to 92%

Enable slim fixture design with flat 21mm height metal housing

Long lasting and high reliability



- 75W-550MA lineer sürücü
- 350-400-500-550ma olarak dipswitch ile akım ayarı
- Non-isolated
- 90-136V-550ma, 90-150V-500ma, 90-187V-400ma, 90-216V-350ma
- 35000-50000 saate kadar çalışma ömrü
- Flicker Free (Current ripple 100Hz < 10)
- Power factor ≥ 0.95
- 3 Yıl Garanti

EM FIT 75W-1600MA DRIVER

OSRAM

EM FIT 75 / 220 – 240 / 1600 CS L

Constant Current LED Power Supply

1300mA - 1400mA - 1500mA- 1600mA

ELEMENT LED Power Supply is the reliable choice for linear and area fixtures for office - industrial - shop lighting

Benefits

Flexible with 1 driver offers 4 output currents;

High quality light with very low ripple;

Very high efficiency up to 89%

Enable slim fixture design with flat 21mm height metal housing

Long lasting and high reliability

SELV driver



- 75W-1600MA lineer sürücü
- 1300-1400-1500-1600ma olarak dipswitch ile akım ayarı
- SELV
- 27-51V
- 35000-50000 saate kadar çalışma ömrü
- Flicker Free (Current ripple 100Hz < 10)
- Power factor ≥ 0.95
- 3 Yıl Garanti

OT FIT 100W-750MA DRIVER

OSRAM

OT FIT 100/220...240/750 D NFC L

OPTOTRONIC FIT D NFC L | Linear / Area Constant Current – Non dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Supply voltage: 220...240 V
- Available with output current range: up to 550 mA
- Non-isolated drivers

Product family benefits

- Flexible and future-proof current setting via NFC (Near Field Communication)
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature protection

- 100W-750MA lineer sürücü
- 250...750ma arası NFC ile akım ayarı
- Non-isolated
- 54...216V
- Default output current 250ma
- 50000-100000 saate kadar çalışma ömrü
- Flicker Free (Current ripple $100\text{Hz} \leq 1\%$)
- Power factor ≥ 0.95
- 3 Yıl Garanti

ELEMENT SERİSİ KOMPAKT DRIVERLAR

OSRAM

- ELEMENT 6W-150MA G3
- ELEMENT 8W-200MA G3
- ELEMENT 10W-250MA G3
- ELEMENT 12W-300MA G3
- ELEMENT 15W-350MA G3
- ELEMENT 20W-500MA G3
- ELEMENT 28W-700MA G3
- ELEMENT 33W-800MA G3
- ELEMENT 35W-900MA G3
- ELEMENT 38W-950MA G3
- ELEMENT 42W-1050MA G3
- Element LD 60W-1400MA

ELEMENT 6W-150MA DRIVER

OSRAM

ELEMENT 6/220-240/150 G3

Constant Current LED Power Supply
150mA

Element LED Power Supply fits in light fixtures for office, shop lighting or other indoor applications that require high quality of light

Benefits:

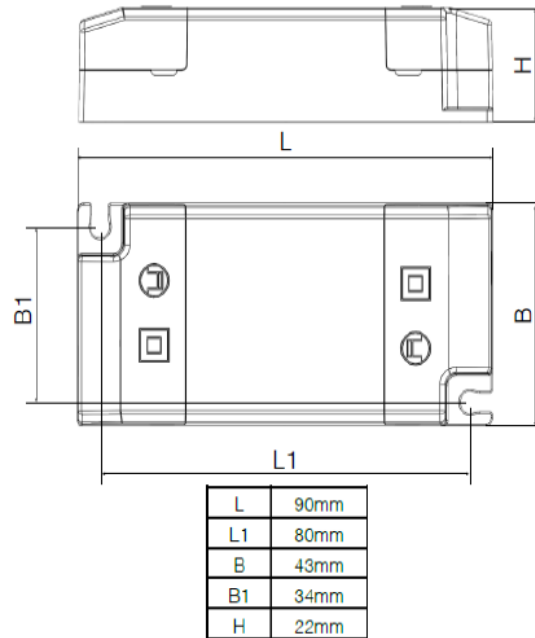
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaires

Approval marks

(Under preparation if on label)



- 6W-150MA kompakt sürücü
- SELV
- 24-42V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.95
- 3 Yıl Garanti

ELEMENT 8W-200MA DRIVER

OSRAM

ELEMENT 8/220-240/200 G3

Constant Current LED Power Supply
200mA

Element LED Power Supply fits in light fixtures
for office, shop lighting or other indoor
applications that require high quality of light

Benefits:

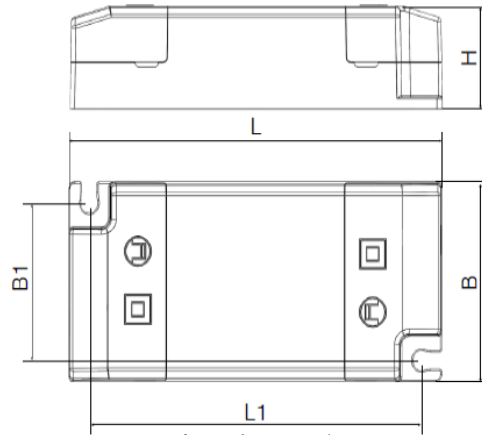
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaries

Approval marks

(Under preparation if on label)



L	90mm
L1	80mm
B	43mm
B1	34mm
H	22mm

- 8W-200MA kompakt sürücü
- SELV
- 24-42V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.95
- 3 Yıl Garanti

ELEMENT 10W-250MA DRIVER

OSRAM

ELEMENT 10/220-240/250 G3

Constant Current LED Power Supply
250mA

Element LED Power Supply fits in light fixtures
for office, shop lighting or other indoor
applications that require high quality of light

Benefits:

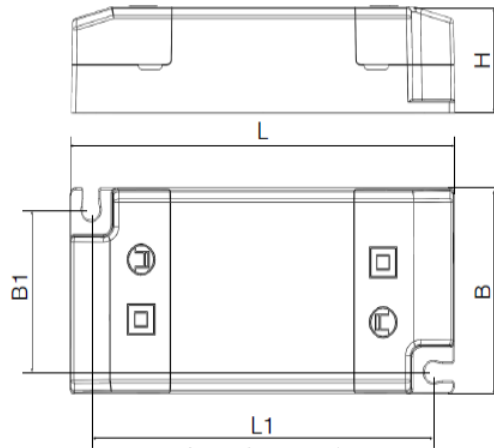
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaries

Approval marks

(Under preparation if on label)



L	90mm
L1	80mm
B	43mm
B1	34mm
H	22mm

- 10W-250MA kompakt sürücü
- SELV
- 24-42V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.95
- 3 Yıl Garanti

ELEMENT 12W-300MA DRIVER

OSRAM

ELEMENT 12/220-240/300 G3

Constant Current LED Power Supply
300mA

Element LED Power Supply fits in light fixtures
for office, shop lighting or other indoor
applications that require high quality of light

Benefits:

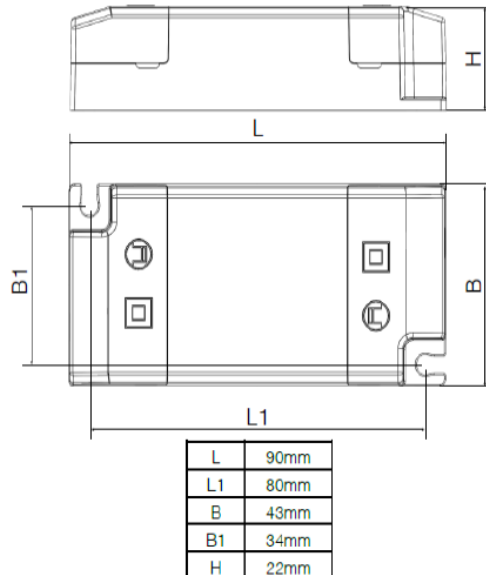
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaries

Approval marks

(Under preparation if on label)



- 12W-300MA kompakt sürücü
- SELV
- 24-42V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.97
- 3 Yıl Garanti

ELEMENT 15W-350MA

OSRAM

ELEMENT 15/220-240/350 G3

Constant Current LED Power Supply
350mA

Element LED Power Supply fits in light fixtures
for office, shop lighting or other indoor
applications that require high quality of light

Benefits:

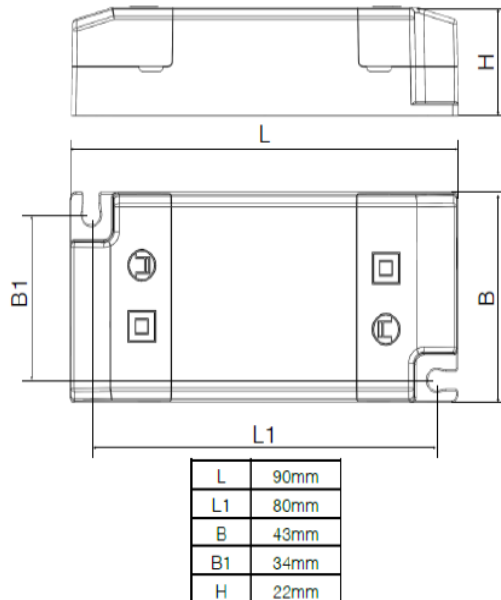
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaries

Approval marks

(Under preparation if on label)



- 15W-350MA kompakt sürücü
- SELV
- 24-42V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq$ 5 %)
- Power factor $\geq$ 0.98
- 3 Yıl Garanti

ELEMENT 20W-500MA DRIVER

OSRAM

ELEMENT 20/220-240/500 G3

Constant Current LED Power Supply
500mA

Element LED Power Supply fits in light fixtures for office, shop lighting or other indoor applications that require high quality of light

Benefits:

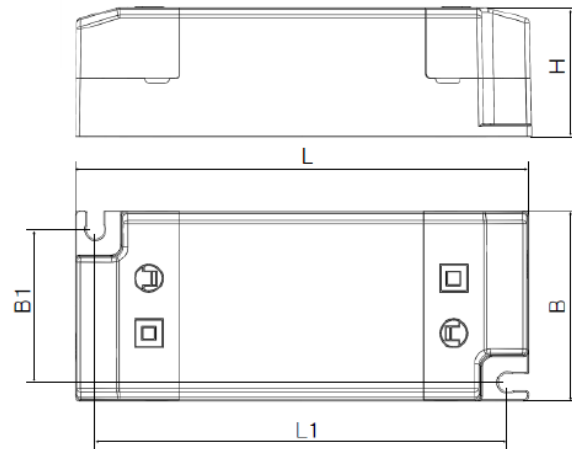
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaires

Approval marks

(Under preparation if on label)



L	103mm
L1	94mm
B	43mm
B1	34.7mm
H	29mm

- 15W-350MA kompakt sürücü
- SELV
- 21-40V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.97
- 3 Yıl Garanti

ELEMENT 28W-700MA DRIVER

OSRAM

ELEMENT 28/220-240/700 G3

Constant Current LED Power Supply

700mA

Element LED Power Supply fits in light fixtures for office, shop lighting or other indoor applications that require high quality of light

Benefits:

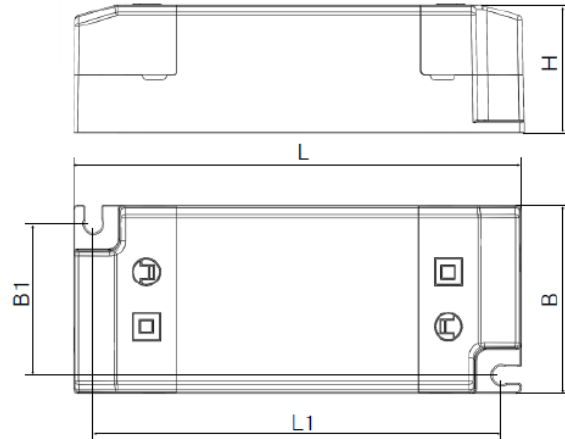
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaries

Approval marks

(Under preparation if on label)



L	103mm
L1	94mm
B	43mm
B1	34.7mm
H	29mm

- 28W-700MA kompakt sürücü
- SELV
- 21-40V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.97
- 3 Yıl Garanti

ELEMENT 33W-800MA DRIVER

OSRAM

ELEMENT 33/220-240/800 G3

Constant Current LED Power Supply

800mA

Element LED Power Supply fits in light fixtures for office, shop lighting or other indoor applications that require high quality of light

Benefits:

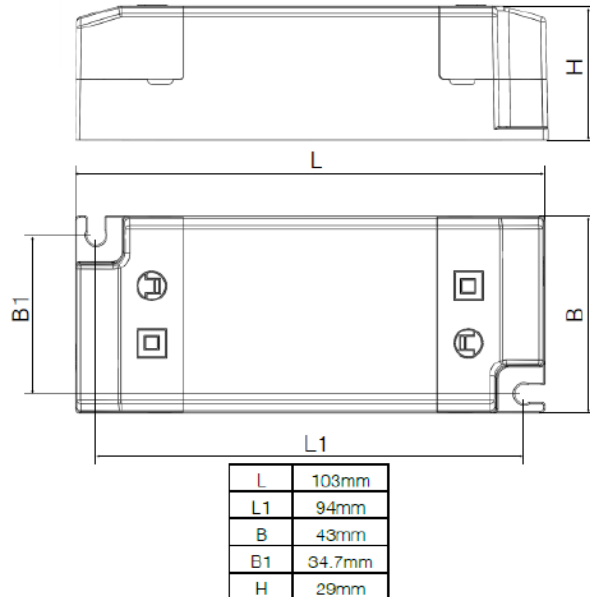
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaries

Approval marks

(Under preparation if on label)



- 33W-800MA kompakt sürücü
- SELV
- 21-40V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.97
- 3 Yıl Garanti

ELEMENT 35W-900MA DRIVER

OSRAM

ELEMENT 35/220-240/900 G3

Constant Current LED Power Supply
900mA

Element LED Power Supply fits in light fixtures for office, shop lighting or other indoor applications that require high quality of light

Benefits:

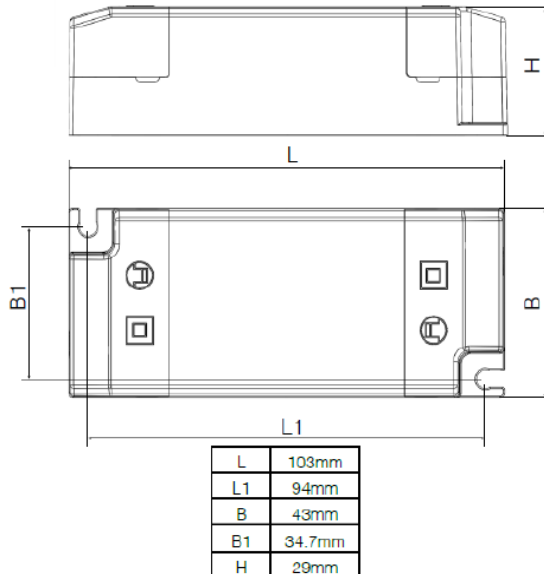
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaries

Approval marks

(Under preparation if on label)



- 35W-900MA kompakt sürücü
- SELV
- 21-40V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.96
- 3 Yıl Garanti

ELEMENT 38W-950MA DRIVER

OSRAM

ELEMENT 38/220-240/950 G3

Constant Current LED Power Supply
950mA

Element LED Power Supply fits in light fixtures for office, shop lighting or other indoor applications that require high quality of light

Benefits:

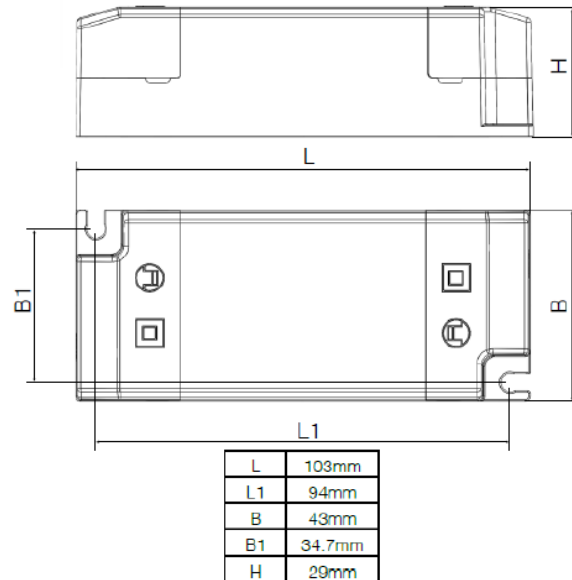
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaries

Approval marks

(Under preparation if on label)



- 38W-950MA kompakt sürücü
- SELV
- 21-40V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.96
- 3 Yıl Garanti

ELEMENT 42W-1050MA DRIVER

OSRAM

ELEMENT 42/220-240/1050 G3

Constant Current LED Power Supply
1050mA

Element LED Power Supply fits in light fixtures for office, shop lighting or other indoor applications that require high quality of light

Benefits:

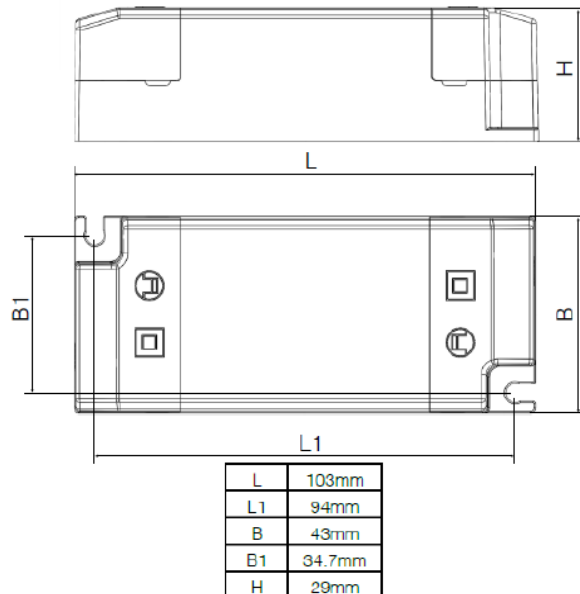
High compatibility with COBs and discrete LEDs;
High quality of light with ripple current < 5%
Safe and reliable
Safety ensured by OSRAM (SELV)
3 years guarantee

Applications

Downlights, Spotlights and Panels
Other Indoor LED luminaires

Approval marks

(Under preparation if on label)



- 42W-1050MA kompakt sürücü
- SELV
- 21-40V
- 30000-50000 saat arası çalışma ömrü
- Flicker Free (Current ripple $\leq 5\%$)
- Power factor ≥ 0.96
- 3 Yıl Garanti

Element LD 60W-1400MA DRIVER

OSRAM

Element LD 60W

Constant Current LED Power Supply

1400mA

Element LED Power Supply with high efficiency and reliability in small compact housing fits in light fixtures for office and shop lighting.

Benefits

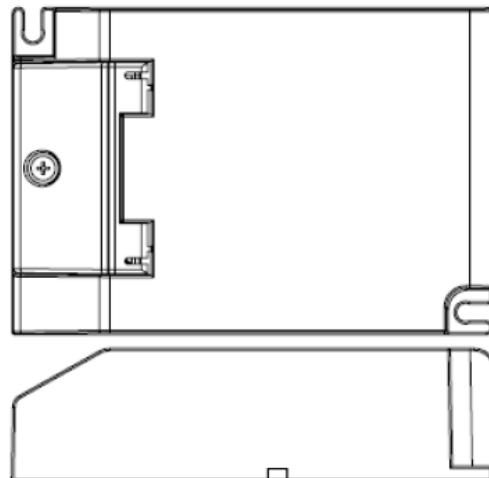
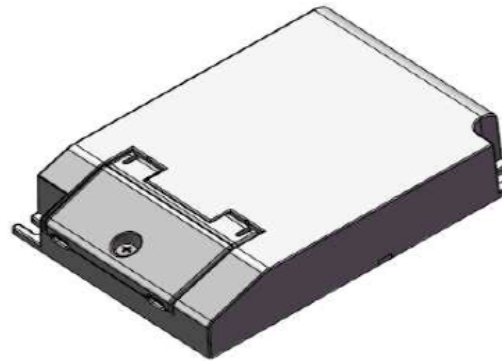
High compatibility with COBs and discrete LEDs;
High efficiency and reliability
Simple to use with easy installation and LED connection

Applications

Spotlight;
Downlight;
Other Indoor LED luminaries

Approval marks

(Under preparation if not shown on label)



- 60W-1400MA kompakt sürücü
- SELV
- 21-42V
- 30000 saat çalışma ömrü
- Power factor ≥ 0.98

DIŞ MEKAN-OUTDOOR DRIVERLAR

OSRAM

- INVENTRONICS 75W-100W-150W-200W IP67 DRIVERLAR
- OSRAM 60W-100W-150W-200W IP67 DRIVERLAR
- OSRAM SURGE PROTECTOR

OSRAM OT 60W/1400MA 1DIM IP67 OUTDOOR DRIVER

OSRAM

Product datasheet

OSRAM

OT 60/220...240/1A4 1DIMA P7

OT 1DIM NFC IP67 Outdoor | AstroDIM – constant current LED drivers

Areas of application

- Street and urban lighting
- Industry



Product family benefits

- Easy and fast wireless luminaire programming
- Very high efficiency
- High surge protection: up to 6 kV
- Great flexibility due to wide operating temperature range of -40...55 °C
- Optimized for AstroDIM operation

Product family features

- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- AstroDIM for autonomous dimming with five independent levels (astro, time mode)
- Constant Lumen Output (CLO)
- IP rating: IP67 with independent installation
- Overtemperature protection

Product datasheet

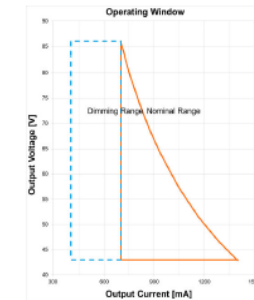
Technical data

Electrical data

Nominal voltage	220...240 V
Input voltage AC	198...264 V
Nominal current	0.30 A
Mains frequency	50...60 Hz
Power factor λ	> 0.97
Total harmonic distortion	< 10 %
Device power loss	8.0 W
Inrush current	52 A ¹⁾
Max. ECG no. on circuit breaker 10 A (B)	7
Max. ECG no. on circuit breaker 16 A (B)	11
Max. ECG no. on circuit breaker 25 A (B)	17
Surge capability (L/N-Ground)	10 kV
Surge capability (L-N)	6 kV
Nominal output power	60 W
ECG efficiency	88 %
Nominal output voltage	43...86 V
Nominal output current	700...1400 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 %
Minimum output current	400 mA
Galvanic isolation	Double
Max. no. of ECGs on 16A MCB with EBN-OS	14

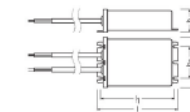
¹⁾ $t_{width} = 220 \mu s$ (measured at 50 % I_{peak})

Product datasheet



Operating Window

Dimensions & weight



Length	138.0 mm
Width	82.4 mm
Height	38.0 mm
Mounting hole spacing, length	126.0 mm
Mounting hole spacing, width	52.0 mm
Product weight	510.00 g
Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²

OSRAM OT 100W/1400mA 1DIM IP67 OUTDOOR DRIVER

OSRAM

Product datasheet

OSRAM

OT 100/220...240/1A4 1DIMA P7

OT 1DIM NFC IP67 Outdoor | AstroDIM – constant current LED drivers



Areas of application

- Street and urban lighting
- Industry

Product family benefits

- Easy and fast wireless luminaire programming
- Very high efficiency
- High surge protection: up to 6 kV
- Great flexibility due to wide operating temperature range of -40...55 °C
- Optimized for AstroDIM operation

Product family features

- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- AstroDIM for autonomous dimming with five independent levels (astro, time mode)
- Constant Lumen Output (CLO)
- IP rating: IP67 with independent installation
- Overtemperature protection

Product datasheet

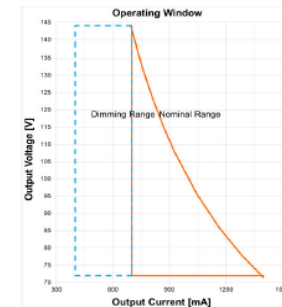
Technical data

Electrical data

Nominal voltage	220...240 V
Input voltage AC	198...264 V
Nominal current	0.50 A
Mains frequency	50...60 Hz
Power factor λ	> 0.95
Total harmonic distortion	< 10 %
Device power loss	11 W
Inrush current	52 A ¹⁾
Max. ECG no. on circuit breaker 10 A (B)	6
Max. ECG no. on circuit breaker 16 A (B)	9
Max. ECG no. on circuit breaker 25 A (B)	15
Surge capability (L/N-Ground)	10 kV
Surge capability (L-N)	6 kV
Nominal output power	100 W
ECG efficiency	90.5 %
Nominal output voltage	72...144 V
Nominal output current	700...1400 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 %
Minimum output current	400 mA
Galvanic isolation	Double
Max. no. of ECGs on 16A MCB with EBN-OS	8

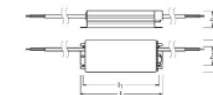
¹⁾ $t_{width} = 250 \mu s$ (measured at 50 % I_{peak})

Product datasheet



Operating Window

Dimensions & weight



Length	172.6 mm
Width	68.5 mm
Height	38.6 mm
Mounting hole spacing, length	159.8 mm
Mounting hole spacing, width	42.9 mm
Product weight	742.00 g
Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²

OSRAM OT 150W/1400mA 1DIM IP67 OUTDOOR DRIVER

OSRAM

Product datasheet

OSRAM

OT 150/220...240/1A4 1DIMA P7

OT 1DIM NFC IP67 Outdoor | AstroDIM – constant current LED drivers



Areas of application

- Street and urban lighting
- Industry

Product family benefits

- Easy and fast wireless luminaire programming
- Very high efficiency
- High surge protection: up to 6 kV
- Great flexibility due to wide operating temperature range of -40...55 °C
- Optimized for AstroDIM operation

Product family features

- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- AstroDIM for autonomous dimming with five independent levels (astro, time mode)
- Constant Lumen Output (CLO)
- IP rating: IP67 with independent installation
- Overtemperature protection

Product datasheet

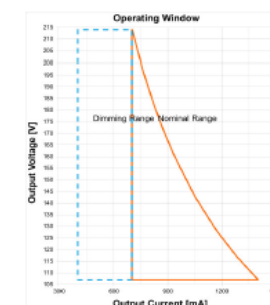
Technical data

Electrical data

Nominal voltage	220...240 V
Input voltage AC	198...264 V
Nominal current	0.77 A
Mains frequency	50...60 Hz
Power factor λ	> 0.97
Total harmonic distortion	< 10 %
Device power loss	13 W
Inrush current	95 A ¹⁾
Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 16 A (B)	5
Max. ECG no. on circuit breaker 25 A (B)	8
Surge capability (L/N-Ground)	10 kV
Surge capability (L-N)	6 kV
Nominal output power	150 W
ECG efficiency	92 %
Nominal output voltage	107...214 V
Nominal output current	700...1400 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 %
Minimum output current	400 mA
Galvanic isolation	basic
Max. no. of ECGs on 16A MCB with EBN-05	5

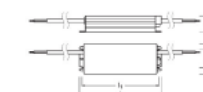
¹⁾ $t_{width} = 264 \mu s$ (measured at 50 % I_{peak})

Product datasheet



Operating Window

Dimensions & weight



Length	212.6 mm
Width	68.5 mm
Height	38.6 mm
Mounting hole spacing, length	199.8 mm
Mounting hole spacing, width	42.9 mm
Product weight	942.00 g
Cable cross-section, input side	1.0 mm²
Cable cross-section, output side	1.0 mm²

OSRAM OT 200W/1400MA 1DIM IP67 OUTDOOR DRIVER

OSRAM

Product datasheet

OSRAM

Product datasheet

OT 200/220...240/1A4 1DIMA P7

OT 1DIM NFC IP67 Outdoor | AstroDIM – constant current LED drivers



Areas of application

- Street and urban lighting
- Industry

Product family benefits

- Easy and fast wireless luminaire programming
- Very high efficiency
- High surge protection: up to 6 kV
- Great flexibility due to wide operating temperature range of -40...55 °C
- Optimized for AstroDIM operation

Product family features

- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- AstroDIM for autonomous dimming with five independent levels (astro, time mode)
- Constant Lumen Output (CLO)
- IP rating: IP67 with independent installation
- Overtemperature protection

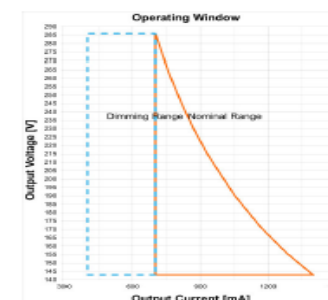
Technical data

Electrical data

Nominal voltage	220...240 V
Input voltage AC	198...264 V
Nominal current	0.95 A
Mains frequency	50...60 Hz
Power factor λ	> 0.98
Total harmonic distortion	< 10 %
Device power loss	15.0 W
Inrush current	119 A ¹⁾
Max. ECG no. on circuit breaker 10 A (B)	2
Max. ECG no. on circuit breaker 16 A (B)	4
Max. ECG no. on circuit breaker 25 A (B)	6
Surge capability (L/N-Ground)	10 kV
Surge capability (L-N)	6 kV
Nominal output power	200 W
ECG efficiency	93 %
Nominal output voltage	143...286 V
Nominal output current	700...1400 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 %
Minimum output current	400 mA
Galvanic isolation	basic
Max. no. of ECGs on 16A MCB with EBN-OS	3

¹⁾ $t_{width} = 262 \mu s$ (measured at 50 % I_{peak})

Product datasheet



Operating Window

Dimensions & weight



Length	227.6 mm
Width	68.5 mm
Height	38.6 mm
Mounting hole spacing, length	214.8 mm
Mounting hole spacing, width	42.9 mm
Product weight	1022.00 g
Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²

INVENTRONICS 75W IP67 1-10V DIM OUTDOOR DRIVER

OSRAM
INVENTRONICS

INVENTRONICS

EUM-075SxxxDx Rev.C 75W Programmable IP66/IP67 Driver

Features

- Compact Metal Case with Excellent Thermal Performance
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with Programmability
- Isolated 1-5V/1-10V/10V PWM/3-Timer-Modes Dimmable
- Output Lumen Compensation
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: OVP, SCP, OTP
- IP66/IP67 and UL Dry/Damp/Wet Location
- Class 2 & SELV Output
- TYPE HL, for use in a Class I, Division 2 hazardous (Classified) location
- 5 Years Warranty



Description

The EUM-075SxxxDx series is a 75W, constant-current, programmable and IP66/IP67 rated LED driver that operates from 90-305Vac input with excellent power factor. It is created for many lighting applications including high bay, tunnel and roadway lights, etc. The high efficiency of these drivers and compact metal case enables them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over voltage, short circuit, and over temperature.

Models

Adjustable Output Current Range	Full-Power Current Range (1)	Default Output Current	Input Voltage Range(2)	Output Voltage Range	Max. Output Power	Typical Efficiency (3)	Typical Power Factor		Model Number (6)
							120Vac	220Vac	
30-530mA	300-530mA	530 mA	90~305 Vac/127~300 Vdc	70~250 Vdc	75W	92.0%	0.99	0.96	EUM-075S053Dx ⁽⁷⁾
70-1050mA	700-1050mA	700 mA	90~305 Vac/127~300 Vdc	36~107 Vdc	75W	90.5%	0.99	0.96	EUM-075S105Dx ⁽⁴⁾
105-1500mA	1050-1500mA	1050 mA	90~305 Vac/127~300 Vdc	25~72 Vdc	75W	90.5%	0.99	0.96	EUM-075S150Dx ⁽⁴⁾
140-2100mA	1400-2100mA	2100 mA	90~305 Vac/127~300 Vdc	18~54 Vdc	75W	89.5%	0.99	0.96	EUM-075S210Dx ⁽⁵⁾

INVENTRONICS

EUM-075SxxxDx Rev.C 75W Programmable IP66/IP67 Driver

Input Specifications (Continued)

Parameter	Min.	Typ.	Max.	Notes
Inrush Current(I _{PI})	-	-	0.90 A ² s	At 220Vac input, 25°C cold start, duration=284 μs, 10%I _{pk} -10%I _{pk} . See Inrush Current Waveform for the details.
PF	0.9	-	-	At 100-277Vac, 50-60Hz, 65%-100% Load (49-75W)
THD	-	-	20%	
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% Load (56-75W)

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	At 100% load condition
Output Current Setting(I _o set) Range				
EUM-075S053Dx	30 mA	-	530 mA	
EUM-075S105Dx	70 mA	-	1050 mA	
EUM-075S150Dx	105 mA	-	1500 mA	
EUM-075S210Dx	140 mA	-	2100 mA	
Output Current Setting Range with Constant Power				
EUM-075S053Dx	300 mA	-	530 mA	
EUM-075S105Dx	700 mA	-	1050 mA	
EUM-075S150Dx	1050 mA	-	1500 mA	
EUM-075S210Dx	1400 mA	-	2100 mA	
Total Output Current Ripple (pk-pk)	-	5%I _{omax}	10%I _{omax}	At 100% load condition. 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	2%I _{omax}	-	At 100% load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%I _{omax}	At 100% load condition
No Load Output Voltage				
EUM-075S053Dx	-	-	330 V	
EUM-075S105Dx	-	-	120 V	
EUM-075S150Dx	-	-	90 V	
EUM-075S210Dx	-	-	60 V	
Line Regulation	-	-	±1%	Measured at 100% load
Load Regulation	-	-	±5%	
Turn-on Delay Time	-	-	0.5 s	Measured at 120-277vac input, 65%-100% Load
Temperature Coefficient of I _o set	-	0.06%/°C	-	Case temperature = 0°C ~T _c max

INVENTRONICS

EUM-075SxxxDx Rev.C 75W Programmable IP66/IP67 Driver

Dimming Specifications

Parameter	Min.	Typ.	Max.	Notes
Absolute Maximum Voltage on the V _{dim} (+) Pin	-20 V	-	20 V	
Source Current on V _{dim} (+)Pin	200 uA	300 uA	450 uA	V _{dim} (+) = 0 V
Dimming Output Range				
EUM-075S053Dx	10%loset	-	loset	300 mA ≤ I _o set ≤ 530 mA
EUM-075S105Dx				700 mA ≤ I _o set ≤ 1050 mA
EUM-075S150Dx				1050 mA ≤ I _o set ≤ 1500 mA
EUM-075S210Dx				1400 mA ≤ I _o set ≤ 2100 mA
EUM-075S053Dx	30 mA	-	loset	30 mA ≤ I _o set < 300 mA
EUM-075S105Dx	70 mA	-		70 mA ≤ I _o set < 700 mA
EUM-075S150Dx	105 mA	-		105 mA ≤ I _o set < 1050 mA
EUM-075S210Dx	140 mA	-		140 mA ≤ I _o set < 1400 mA
Recommended Dimming Range for 1-5V	0.25 V	-	4.75 V	Dimming mode set to 1-5V in PC interface.
Recommended Dimming Range for 1-10V	1 V	-	9 V	Default 1-10V dimming mode with positive logic.
PWM_in High Level	-	10V	-	
PWM_in Low Level	-	0V	-	
PWM_in Frequency Range	200 Hz	-	2 KHz	
PWM_in Duty Cycle	0%	-	100%	

Safety & EMC Compliance

Safety Category	Standard
UL/CUL	UL 8750, CAN/CSA-C22.2 No. 250.13
ENEC & CE	EN 61347-1, EN 61347-2-13
UKCA	BS EN 61347-1, BS EN 61347-2-13
CB	IEC 61347-1, IEC 61347-2-13
CCC	GB 19510.1, GB 19510.14
PSE	J 61347-1, J 61347-2-13
KS	KS C 7855
BIS	IS 15885(Part2/Sec13)
EAC	TP TC 004, TP TC 020
NOM	NOM-058-SCFI
global-mark	AS/NZS 61347.1, AS/NZS 61347.2.13
Performance	Standard
ENEC	EN 62384
EMI Standards	Notes
BS EN/IEC 55015/GB/T 17743/KN 15 ⁽¹⁾	Conducted emission Test & Radiated emission Test

INVENTRONICS 100W IP67 1-10V DIM OUTDOOR DRIVER

OSRAM
INVENTRONICS

INVENTRONICS

EUM-100SxxxDx Rev.D **100W Programmable IP66/IP67 Driver**

Features

- Compact Metal Case with Excellent Thermal Performance
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with Programmability
- Isolated 1-5V/1-10V/10V PWM/3-Timer-Modes Dimmable
- Output Lumen Compensation
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: OVP, SCP, OTP
- IP66/IP67 and UL Dry/Damp/Wet Location
- Class 2 & SELV Output
- TYPE HL, for use in a Class I, Division 2 hazardous (Classified) location
- 5 Years Warranty



Description

The *EUM-100SxxxDx* series is a 100W, constant-current, programmable and IP66/IP67 rated LED driver that operates from 90-305Vac input with excellent power factor. It is created for many lighting applications including high bay, tunnel and roadway, etc. The high efficiency of these drivers and compact metal case enables them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over voltage, short circuit, and over temperature.

Models

Adjustable Output Current Range	Full-Power Current Range (1)	Default Output Current	Input Voltage Range(2)	Output Voltage Range	Max. Output Power	Typical Efficiency (3)	Typical Power Factor		Model Number (6)
							120Vac	220Vac	
35-530mA	350-530mA	530 mA	90~305 Vac/ 127~300 Vdc	94~286 Vdc	100W	94.0%	0.99	0.96	EUM-100S053Dx ⁽⁷⁾
70-1050mA	700-1050mA	700 mA	90~305 Vac/ 127~300 Vdc	48~143 Vdc	100W	93.0%	0.99	0.96	EUM-100S105Dx
105-1500mA	1050-1500mA	1050 mA	90~305 Vac/ 127~300 Vdc	34~95 Vdc	100W	93.0%	0.99	0.96	EUM-100S150Dx ⁽⁴⁾
175-2800mA	1750-2800mA	2100 mA	90~305 Vac/ 127~300 Vdc	17~54 Vdc	96W	92.0%	0.99	0.96	EUM-100S280Dx ⁽⁵⁾

INVENTRONICS

EUM-100SxxxDx Rev.D **100W Programmable IP66/IP67 Driver**

Input Specifications (Continued)

Parameter	Min.	Typ.	Max.	Notes
PF	0.9	-	-	At 100-277Vac, 50-60Hz, 65%-100% Load (65-100W)
THD	-	-	20%	
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% Load (75-100W)

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	At 100% load condition
Output Current Setting(loset) Range	EUM-100S053Dx EUM-100S105Dx EUM-100S150Dx EUM-100S280Dx	35 mA 70 mA 105 mA 175 mA	- - - -	530 mA 1050 mA 1500 mA 2800 mA
Output Current Setting Range with Constant Power	EUM-100S053Dx EUM-100S105Dx EUM-100S150Dx EUM-100S280Dx	350 mA 700 mA 1050 mA 1750 mA	- - - -	530 mA 1050 mA 1500 mA 2800 mA
Total Output Current Ripple (pk-pk)	-	5%lomax	10%lomax	At 100% load condition. 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	2%lomax	-	At 100% load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%lomax	At 100% load condition
No Load Output Voltage	EUM-100S053Dx EUM-100S105Dx EUM-100S150Dx EUM-100S280Dx	- - - -	- - - -	320 V 170 V 120 V 60 V
Line Regulation	-	-	±0.5%	Measured at 100% load
Load Regulation	-	-	±1.5%	
Turn-on Delay Time	-	-	0.5 s	Measured at 120-277Vac input, 65%-100% Load
Temperature Coefficient of loset	-	0.03%/°C	-	Case temperature = 0°C ~Tc max

INVENTRONICS

EUM-100SxxxDx Rev.D **100W Programmable IP66/IP67 Driver**

Dimming Specifications

Parameter		Min.	Typ.	Max.	Notes
Absolute Maximum Voltage on the Vdim (+) Pin		-20 V	-	20 V	
Source Current on Vdim (+)Pin		200 µA	300 µA	450 µA	Vdim(+) = 0 V
Dimming Output Range	EUM-100S053Dx EUM-100S105Dx EUM-100S150Dx EUM-100S280Dx	10%loset	-	loset	350 mA ≤ loiset ≤ 530 mA 700 mA ≤ loiset ≤ 1050 mA 1050 mA ≤ loiset ≤ 1500 mA 1750 mA ≤ loiset ≤ 2800 mA
	EUM-100S053Dx EUM-100S105Dx EUM-100S150Dx EUM-100S280Dx	35 mA 70 mA 105 mA 175 mA	-	loset	35 mA ≤ loiset < 350 mA 70 mA ≤ loiset < 700 mA 105 mA ≤ loiset < 1050 mA 175 mA ≤ loiset < 1750 mA
Recommended Dimming Range for 1-5V		0.25 V	-	4.75 V	Dimming mode set to 1-5V in PC interface.
Recommended Dimming Range for 1-10V		1 V	-	9 V	Default 1-10V dimming mode with positive logic.
PWM_in High Level		-	10V	-	
PWM_in Low Level		-	0V	-	
PWM_in Frequency Range		200 Hz	-	2 KHz	
PWM_in Duty Cycle		0%	-	100%	

Safety & EMC Compliance

Safety Category	Standard
UL/CUL	UL 8750,CAN/CSA-C22.2 No. 250.13
ENEC & CE	EN 61347-1, EN 61347-2-13
UKCA	BS EN 61347-1, BS EN 61347-2-13
CB	IEC 61347-1, IEC 61347-2-13
CCC	GB 19510.1, GB 19510.14
PSE	J 61347-1, J 61347-2-13
KS	KS C 7855
BIS	IS 15885(Part2/Sec13)
EAC	TP TC 004, TP TC 020
NOM	NOM-058-SCFI
global-mark	AS/NZS 61347.1, AS/NZS 61347.2.13
Performance	Standard
ENEC	EN 62384
EMI Standards	Notes
BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾	Conducted emission Test &Radiated emission Test

INVENTRONICS 150W IP67 1-10V DIM OUTDOOR DRIVER

OSRAM
INVENTRONICS

INVENTRONICS

EUM-150SxxxDx Rev.E 150W Programmable IP66/IP67 Driver

Features

- Compact Metal Case with Excellent Thermal Performance
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with Programmability
- Isolated 1-5V/1-10V/10V PWM/3-Timer-Modes Dimmable
- Output Lumen Compensation
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: OVP, SCP, OTP
- IP66/IP67 and UL Dry/Damp/Wet Location
- SELV Output
- TYPE HL, for use in a Class I, Division 2 hazardous (Classified) location
- 5 Years Warranty



Description

The EUM-150SxxxDx series is a 150W, constant-current, programmable and IP66/IP67 rated LED driver that operates from 90-305Vac input with excellent power factor. It is created for many lighting applications including high bay, high mast and roadway, etc. The high efficiency of these drivers and compact metal case enables them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over voltage, short circuit, and over temperature.

Models

Adjustable Output Current Range	Full-Power Current Range (1)	Default Output Current	Input Voltage Range(2)	Output Voltage Range	Max. Output Power	Typical Efficiency (3)	Typical Power Factor		Model Number (5)
							120Vac	220Vac	
53-700mA	530-700mA	530mA	90~305 Vac/127~300 Vdc	107~284 Vdc	150W	93.5%	0.99	0.96	EUM-150S070Dx ⁽⁶⁾
70-1050mA	700-1050mA	700mA	90~305 Vac/127~300 Vdc	72~214 Vdc	150W	93.0%	0.99	0.96	EUM-150S105Dx
105-1500mA	1050-1500mA	1050mA	90~305 Vac/127~300 Vdc	50~143 Vdc	150W	93.5%	0.99	0.96	EUM-150S150Dx
140-2100mA	1400-2100mA	1400mA	90~305 Vac/127~300 Vdc	36~107 Vdc	150W	92.0%	0.99	0.96	EUM-150S210Dx ⁽⁴⁾
280-4200mA	2800-4200mA	3150mA	90~305 Vac/127~300 Vdc	18 ~ 54 Vdc	150W	91.5%	0.99	0.96	EUM-150S420Dx ⁽⁴⁾

INVENTRONICS

EUM-150SxxxDx Rev.E 150W Programmable IP66/IP67 Driver

Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Input AC Voltage	90 Vac	-	305 Vac	
Input DC Voltage	127 Vdc	-	300 Vdc	
Input Frequency	47 Hz	-	63 Hz	
Leakage Current	-	-	0.75 MIU	UL 8750; 277Vac/60Hz
	-	-	0.70 mA	IEC 60598-1; 240Vac/60Hz
Input AC Current	-	-	1.50 A	Measured at 100% load and 120 Vac input.
	-	-	0.80 A	Measured at 100% load and 220 Vac input.
Inrush Current(I _{pt})	-	-	3.55 A ² s	At 220Vac input, 25°C cold start, duration=220 μs, 10%pk-10%pk. See Inrush Current Waveform for the details.
PF	0.9	-	-	At 100-277Vac, 50-60Hz, 65%-100% Load (97.5-150W)
THD	-	-	20%	
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% Load (112.5-150W)

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	At 100% load condition
Output Current Setting(loset) Range	EUM-150S070Dx	53 mA	-	700 mA
	EUM-150S105Dx	70 mA	-	1050 mA
	EUM-150S150Dx	105 mA	-	1500 mA
	EUM-150S210Dx	140 mA	-	2100 mA
	EUM-150S420Dx	280 mA	-	4200 mA
Output Current Setting Range with Constant Power	EUM-150S070Dx	530 mA	-	700 mA
	EUM-150S105Dx	700 mA	-	1050 mA
	EUM-150S150Dx	1050 mA	-	1500 mA
	EUM-150S210Dx	1400 mA	-	2100 mA
	EUM-150S420Dx	2800 mA	-	4200 mA
Total Output Current Ripple (pk-pk)	-	5%lomax	10%lomax	At 100% load condition. 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	2%lomax	-	At 100% load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%lomax	At 100% load condition
No Load Output Voltage	EUM-150S070Dx	-	-	320 V
	EUM-150S105Dx	-	-	240 V
	EUM-150S150Dx	-	-	160 V
	EUM-150S210Dx	-	-	120 V
	EUM-150S420Dx	-	-	60 V
Line Regulation	-	-	± 0.5%	Measured at 100% load

INVENTRONICS

EUM-150SxxxDx Rev.E 150W Programmable IP66/IP67 Driver

General Specifications (Continued)

Parameter	Min.	Typ.	Max.	Notes
Efficiency at 277 Vac input: EUM-150S070Dx lo= 530 mA lo= 700 mA EUM-150S105Dx lo= 700 mA lo=1050 mA EUM-150S150Dx lo=1050 mA lo=1500 mA EUM-150S210Dx lo=1400 mA lo=2100 mA EUM-150S420Dx lo=2800 mA lo=4200 mA	91.5% 92.0%	93.5% 94.0%	- -	Measured at 100% load and steady-state temperature in 25°C ambient. (Efficiency will be about 2.0% lower if measured immediately after startup.)
	91.0% 91.5%	93.0% 93.5%	- -	
	91.5% 91.5%	93.5% 93.5%	- -	
	90.0% 90.0%	92.0% 92.0%	- -	
	89.5% 89.0%	91.5% 91.0%	- -	
MTBF	-	333,000 Hours	-	Measured at 220Vac input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)
Lifetime	-	106,000 Hours	-	Measured at 220Vac input, 80%Load and 70°C case temperature; See lifetime vs. To curve for the details
Operating Case Temperature for Safety To_s	-40°C	-	+90°C	
Operating Case Temperature for Warranty To_w	-40°C	-	+80°C	Case temperature for 5 years warranty Humidity: 10% RH to 95% RH
Storage Temperature	-40°C	-	+85°C	Humidity: 5%RH to 95%RH
Dimensions	Inches (L x W x H)		6.34 x 2.36 x 1.44	With mounting ear 7.01 x 2.36 x 1.44
	Millimeters (L x W x H)		161 x 60 x 36.5	
Net Weight	-	735 g	-	178 x 60 x 36.5

Dimming Specifications

Parameter	Min.	Typ.	Max.	Notes
Absolute Maximum Voltage on the Vdim (+) Pin	-20 V	-	20 V	
Source Current on Vdim (+)Pin	200 μA	300 μA	450 μA	Vdim(+) = 0 V
Dimming Output Range	EUM-150S070Dx EUM-150S105Dx EUM-150S150Dx EUM-150S210Dx EUM-150S420Dx	10%loset	-	530 mA ≤ loset ≤ 700 mA 700 mA ≤ loset ≤ 1050 mA 1050 mA ≤ loset ≤ 1500 mA 1400 mA ≤ loset ≤ 2100 mA 2800 mA ≤ loset ≤ 4200 mA
	EUM-150S070Dx EUM-150S105Dx EUM-150S150Dx EUM-150S210Dx EUM-150S420Dx	53 mA 70 mA 105 mA 140 mA 280 mA	-	53 mA ≤ loset ≤ 530mA 70 mA ≤ loset < 700 mA 105 mA ≤ loset < 1050 mA 140 mA ≤ loset < 1400 mA 280 mA ≤ loset < 2800 mA
Recommended Dimming Range for 1-5V		0.25 V	-	4.75 V
Recommended Dimming Range for 1-10V		1 V	-	9 V

INVENTRONICS 200W IP67 1-10V DIM OUTDOOR DRIVER

OSRAM
INVENTRONICS

INVENTRONICS

EUM-200SxxxDx

Rev.D

200W Programmable IP66/IP67 Driver

Features

- Compact Metal Case with Excellent Thermal Performance
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with Programmability
- Isolated 1-5V/1-10V/10V PWM/3-Timer-Modes Dimmable
- Output Lumen Compensation
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: OVP, SCP, OTP
- IP66/IP67 and UL Dry/Damp/Wet Location
- SELV Output
- TYPE HL, for use in a Class I, Division 2 hazardous (Classified) location
- 5 Years Warranty



Description

The EUM-200SxxxDx series is a 200W, constant-current, programmable IP67 LED driver that operates from 90-305Vac input with excellent power factor. It is created for many lighting applications including high bay, high mast and roadway, etc. The high efficiency of these drivers and compact metal case enables them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over voltage, short circuit, and over temperature.

Models

Adjustable Output Current Range	Full-Power Current Range (1)	Default Output Current	Input Voltage Range(2)	Output Voltage Range	Max. Output Power	Typical Efficiency (3)	Typical Power Factor		Model Number (4) (5)
							120Vac	220Vac	
53-700mA	530-700mA	530 mA	90~305 Vac/ 127~300 Vdc	142~378 Vdc	200 W	94.0%	0.99	0.96	EUM-200S070Dx ⁽⁶⁾
70-1050mA	700-1050mA	700 mA	90~305 Vac/ 127~300 Vdc	95~286 Vdc	200 W	93.5%	0.99	0.96	EUM-200S105Dx
105-1500mA	1050-1500mA	1050 mA	90~305 Vac/ 127~300 Vdc	67~190 Vdc	200 W	93.0%	0.99	0.96	EUM-200S150Dx
180-2800mA	1800-2800mA	2100 mA	90~305 Vac/ 127~300 Vdc	36~111 Vdc	200 W	92.5%	0.99	0.96	EUM-200S280Dx ⁽⁷⁾
350-5600mA	3500-5600mA	4200 mA	90~305 Vac/ 127~300 Vdc	18 ~ 57 Vdc	200 W	92.0%	0.99	0.96	EUM-200S560Dx ⁽⁷⁾

INVENTRONICS

EUM-200SxxxDx

Rev.D

200W Programmable IP66/IP67 Driver

Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Input AC Voltage	90 Vac	-	305 Vac	
Input DC Voltage	127 Vdc	-	300 Vdc	
Input Frequency	47 Hz	-	63 Hz	
Leakage Current	-	-	0.75 MIU	UL 8750; 277Vac/60Hz
	-	-	0.70 mA	IEC60598-1; 240V/ac/60Hz
Input AC Current	-	-	2.00 A	Measured at 100% load and 120 Vac input.
	-	-	1.05 A	Measured at 100% load and 220 Vac input.
Inrush Current(I _{Pt})	-	-	4.20 A ² s	At 220Vac input, 25°C cold start, duration=848 μs, 10%lpk-10%lpk. See Inrush Current Waveform for the details.
PF	0.9	-	-	At 100-277Vac, 50-60Hz, 65%-100% Load (130-200W)
THD	-	-	20%	
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% Load (150-200W)

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	At 100% load condition
Output Current Setting(loset) Range				
EUM-200S070Dx	53 mA	-	700 mA	
EUM-200S105Dx	70 mA	-	1050 mA	
EUM-200S150Dx	105 mA	-	1500 mA	
EUM-200S280Dx	180 mA	-	2800 mA	
EUM-200S560Dx	350 mA	-	5600 mA	
Output Current Setting Range with Constant Power				
EUM-200S070Dx	530 mA	-	700 mA	
EUM-200S105Dx	700 mA	-	1050 mA	
EUM-200S150Dx	1050 mA	-	1500 mA	
EUM-200S280Dx	1800 mA	-	2800 mA	
EUM-200S560Dx	3500 mA	-	5600 mA	
Total Output Current Ripple (pk-pk)	-	5%Iomax	10%Iomax	At 100% load condition. 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	2%Iomax	-	At 100% load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%Iomax	At 100% load condition
No Load Output Voltage				
EUM-200S070Dx	-	-	420 V	
EUM-200S105Dx	-	-	320 V	
EUM-200S150Dx	-	-	210 V	
EUM-200S280Dx	-	-	120 V	
EUM-200S560Dx	-	-	65 V	

INVENTRONICS

EUM-200SxxxDx

Rev.D

200W Programmable IP66/IP67 Driver

General Specifications (Continued)

Parameter	Min.	Typ.	Max.	Notes
Efficiency at 277 Vac input: EUM-200S070Dx	lo= 530 mA lo= 700 mA	92.0% 92.5%	94.0% 94.5%	-
EUM-200S105Dx	lo= 700 mA lo=1050 mA	92.0% 92.0%	94.0% 94.0%	-
EUM-200S150Dx	lo=1050 mA lo=1500 mA	91.5% 91.5%	93.5% 93.5%	-
EUM-200S280Dx	lo=1800 mA lo=2800 mA	91.0% 90.5%	93.0% 92.5%	-
EUM-200S560Dx	lo=3500 mA lo=5600 mA	90.5% 90.0%	92.5% 92.0%	-
MTBF	-	267,000 Hours	-	Measured at 220Vac input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)
Lifetime	-	100,000 Hours	-	Measured at 220Vac input, 80%Load and 70°C case temperature; See lifetime vs. Tc curve for the details
Operating Case Temperature for Safety Tc_s	-40°C	-	+80°C	
Operating Case Temperature for Warranty Tc_w	-40°C	-	+80°C	Case temperature for 5 years warranty Humidity: 10%RH to 95%RH
Storage Temperature	-40°C	-	+85°C	Humidity: 5%RH to 95%RH
Dimensions	Inches (L x W x H) Millimeters (L x W x H)		6.73 x 2.36 x 1.44 171 x 60 x 36.5	With mounting ear 7.40 x 2.36 x 1.44 188 x 60 x 36.5
Net Weight	-	780 g	-	

Dimming Specifications

Parameter	Min.	Typ.	Max.	Notes
Absolute Maximum Voltage on the Vdim (+) Pin	-20 V	-	20 V	
Source Current on Vdim (+)Pin	200 μA	300 μA	450 μA	Vdim(+) = 0 V
Dimming Output Range	EUM-200S070Dx EUM-200S105Dx EUM-200S150Dx EUM-200S280Dx EUM-200S560Dx	10%loset	-	loset
	EUM-200S070Dx EUM-200S105Dx EUM-200S150Dx EUM-200S280Dx EUM-200S560Dx	53 mA 70 mA 105 mA 180 mA 350 mA	loset < 530 mA loset < 700 mA loset < 1050 mA loset < 1800 mA loset < 3500 mA	
Recommended Dimming Range for 1-5V	0.25 V	-	4.75 V	Dimming mode set to 1-5V in PC interface.
Recommended Dimming Range for 1-10V	1 V	-	9 V	Default 1-10V dimming mode with positive logic.

OSRAM SPD 10/275- YILDIRIM KORUMA

OSRAM

Surge Protection Device

Product Data Sheet

Surge Protection Device

Product Data Sheet

Surge Protection Device

Product Data Sheet

SPD 10/275 P5 G2

Surge Protection Device

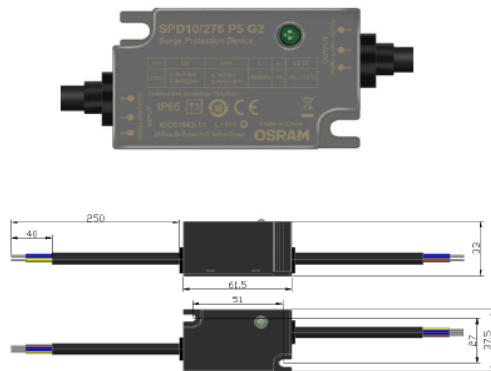
Surge Protection Device is to offer comprehensive protection solution against high surges for Outdoor lighting systems.

Benefits

Maximize the lifetime of outdoor lighting system
Lower maintenance costs
Suitable for luminaries of protection class I/II
Long lifetime & high working temperature
IP65 protection against vibration and water
High surge protection of up to 10kV / 10kA for all lighting applications
Failure indication LED
Fully comply with IEC 61643-11

Applications

Street and Urban lighting
Industrial lighting
All outdoor application



Housing material: Plastic

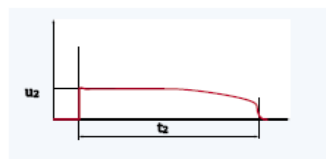
Color: Gray

Electrical Specifications

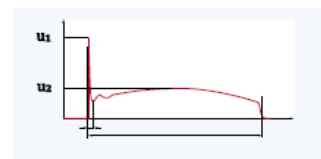
Item	Value	Unit	Remarks
Max. continuous operating voltage (L-N)	275	Vac	
Nominal frequency	50 / 60	Hz	
Classification	Class III (T3)		Acc. IEC61643-11
Power grids	TN		Including all TN varieties TN-C, TN-C-S, TN-S
Open-circuit voltage	10	kV	
Nominal current	4	A	Rated load current at 50/60 Hz
Power losses	0.1%	W	Of total system power
Protection class	I/II		Insulation Class acc. IEC60598
Over current protection	15	A	Max.
Temporary overvoltage	441.7 336.6	V	LV system fault: 255 V x 1.73 at tt = 120 m, TN LV system fault: 255 V x 1.32 at tt = 5 s, TN
Prospective short circuit current	150	A	
Protection mode	Different mode, Common mode		Please refer to Protection levels.
Nominal discharge current	5 5 5	kA	L-N; @ UOC=10KV, internal resistance=2Ω L-GND; @ UOC=10KV, internal resistance=2Ω N-GND; @ UOC=10KV, internal resistance=2Ω
Max. voltage protection level	1.5 2	kV	L-N; @ UOC=10KV, internal resistance=2Ω L-GND; @ UOC=10KV, internal resistance=2Ω N-GND; @ UOC=10KV, internal resistance=2Ω
Power consumption	0.1	μA	Of total system power. Max. at UC = 275VAC;
Max earth leakage current	50	μA	Max. rms. to GND
Surge withstand capability	1 30 50	strike	Max. at 10kA (L-N; L/N-PE) Min. at 5kA (L-N; L/N-PE) Min. at 3kA (L-N; L/N-PE)
Ambient temperature range t_a	-40 ... +70	°C	
Max. case temperature at t_a point	80	°C	
Storage temperature range	-40 ... +85	°C	
Relative humidity	5 ... 95	%	Not condensing
Environmental rating	Outdoor		Built-in only
IP rating	IP 65		
End of life indication (by LED light)	Yes		Optical, light ON: SPD is functional. Light OFF: SPD has reached end-of-life.
Dimensions	61.5 x 37.5 x 33	mm	
Weight	148	g	

Protection levels of Up

IC 8/20 μs	Differential mode U2 (L-N)	IC 8/20 μs	Common mode U1/U2 (L/N-PE)
5kA	≤1500 V	5kA	≤2000 V / 1500 V

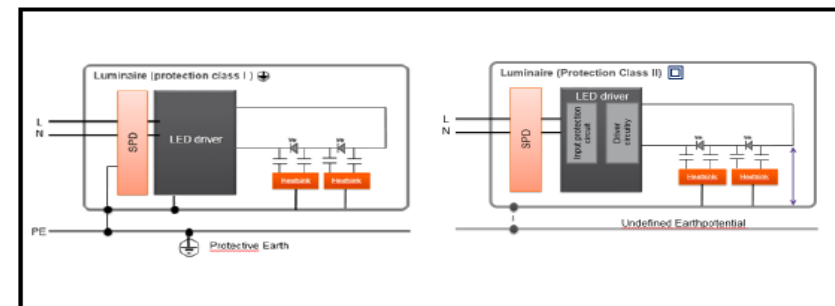


Differential mode L-N



Common mode (L/N - ground, L+N - ground)

Wiring Diagram



Item	Value	Unit	Remarks
Cable cross section	3*1	mm ²	Solid and stranded
Wire preparation length	8...10	mm	
Type of wire	Cable,		
Lead length	250	mm	
Cable cross section	3*1	mm ²	Solid and stranded
Wire preparation length	8...10	mm	
Type of wire	Cable,		
Lead length	250	mm	
Cable length from SPD to LED Driver	<3	m	

Standards
IEC 61643-11
IEC 60598

Product name	EAN10	EAN40	Pieces / box
SPD 10/275 P5 G2	4062172145404	4062172145411	50

Manufacturer's address:

OSRAM GmbH

Steinerte Furt 62
D-86167 Augsburg
Germany

www.osram.com

Technical support:

Customer Service Center Germany
+49 (0)89-6213-60 00

Product Features

- Mains voltage to 275Vac
- High surge protection of up to 10 kV / 10 kA
- Suitable for luminaries of protection class I/II
- Fully comply with IEC 61643-11
- Fully LED Driver protection by Up <2kV
- IP65 production

OSRAM DALI DRIVERLAR

OSRAM

- OTI DALI 10/220-240/700 NFC
- IT DALI 12/220-240/300 CS
- IT DALI 15/220-240/350 CS
- OTI DALI 15/220-240/1A0 NFC
- IT DALI 20/220-240/1A0 E
- ETi DALI 25/220...240/500 LT2 L
- IT DALI 30/220-240/700 CS
- ETI DALI 35/220-240/700 LT2 L
- IT DALI 42/220-240/1A0 CS
- ETI DALI 75/220-240/500 D LT2 L
- OTI DALI 75/220-240/1A4 NFC TW L
- OTi DALI 80/220-240/24 1CH G3
- IT DALI 110/220-240/1A0 E
- IT DALI 150/220-240/1A0 E

OTI DALI 10W/700MA NFC INCE KOMPAKT DRIVER

OSRAM

Product datasheet



OTi DALI 10/220...240/700 NFC

OPTOTRONIC Intelligent – DALI NFC S | Compact constant current LED driver – Dimmable



Product family features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz, 50...60 Hz
- Line voltage: 198...264 V
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression: to EN 55015/CISPR 15
- Immunity according to EN 61547
- Type of protection: IP20

Product family benefits

- Versatile DALI window driver due to flexible output characteristic
- Locking and unlocking of luminaire/driver data
- Easy and fast output current setting via NFC
- Very high efficiency
- High-quality dimming of 1...100 % by amplitude dimming
- DALI-2 certified incl. Parts 251, 252, 253

Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for use in luminaires with flexible current setting
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0...60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	176...276 V
Total harmonic distortion	15 % ²⁾
Power factor λ	> 0.98/> 0.94 ³⁾
ECG efficiency	82 % ⁴⁾
Device power loss	3.5 W
Power loss in stand-by mode	≤0.15 W
Inrush current	< 5 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	80
Max. ECG no. on circuit breaker 16 A (B)	130
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	2.5...45 V ⁶⁾
U-OUT (working voltage)	60 V
Nominal output current	150...700 mA ⁷⁾
Default output current	350 mA
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 2 % ⁸⁾
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	10 W ⁹⁾
Galvanic isolation	SELV
Current set	DALI / NFC

¹⁾ Permitted voltage range

²⁾ At full load, 220...240 V, 50 Hz / At half load, 220...240 V, 50 Hz

³⁾ At Pmax, 220...240 V, 50 Hz/At 50% Pmax, 220...240 V, 50 Hz

⁴⁾ Typical / At full load and 230 V

⁵⁾ t_{width} = 100 µs (measured at 50 % I_{peak})

⁶⁾ Maximum 60 V

⁷⁾ ±3%

⁸⁾ Ripple average at 100 Hz

⁹⁾ Partial load 1.5...10 W

Dimensions & weight



Mounting hole spacing, length	115.0 mm
Product weight	58.00 g
Cable cross-section, input side	0.2...1.5 mm ² ¹⁾
Cable cross-section, output side	0.2...1.5 mm ² ¹⁾
Wire preparation length, input side	8.0...9.1 mm
Wire preparation length, output side	8.0...9.1 mm
Length	124.0 mm
Width	31.0 mm
Height	21.0 mm

¹⁾ Solid or flexible leads

Colors & materials

Casing material	Plastic
-----------------	---------

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	75 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ²⁾

¹⁾ Maximum at the Tc-point

²⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 / 100000 h ¹⁾
--------------	--------------------------------

¹⁾ T₁ = 75 °C, 0.2% / 1,000 h failure rate / T₂ = 65 °C, 0.1% / 1,000 h failure rate

IT DALI 12/220-240/300 CS

OSRAM

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

IT DALI 12/220-240/300 CS

ICUTRONIC DALI CS | Constant Current Compact – Dimmable



Product family features

- Supply voltage: 220...240 V
- Line voltage: 198...264 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Lifetime: up to 50,000 h (temperature at max. t_c)
- Type of protection: IP20

Product family benefits

- Safety ensured by OSRAM (SELV)
- DALI-2 certified
- High flexibility due to eight different output currents
- Touch DIM application: easy to control via pushbutton or sensor
- Easy to use in corridors and restrooms because of three-level Corridor function
- Higher quality of light thanks to low output ripple current
- Small housing for flexible luminaire designs
- Housing from 80% recycled plastic

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	176...276 V
Current set	DipSwitch
Total harmonic distortion	< 10 % ²⁾
Power factor λ	0.51C...0.98
Efficiency in full-load	81 % ³⁾
Device power loss	3.0 W ⁴⁾
Protective conductor current	<0.7 mA
Inrush current	25 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	34
Max. ECG no. on circuit breaker 16 A (B)	54
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	9...42 V ⁶⁾
U-OUT (working voltage)	60 V
Nominal output current	90 mA / 100 mA / 120 mA / 150 mA / 180 mA / 200 mA / 250 mA / 300 mA
Default output current	300 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 % ⁸⁾
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	0.8...12.6 W ⁹⁾
Maximum output power	12.6 W
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Networked standby power	<0.50 W ³⁾

1) Permitted voltage range

2) At full load, 220...240 V, 50 Hz / see graphs

3) at 230 V, 50 Hz

4) Maximum / Full load, 230 Vac, 50Hz / 60Hz

5) $t_{peak} = 100 \mu s$ (measured at 50 % I_{peak})

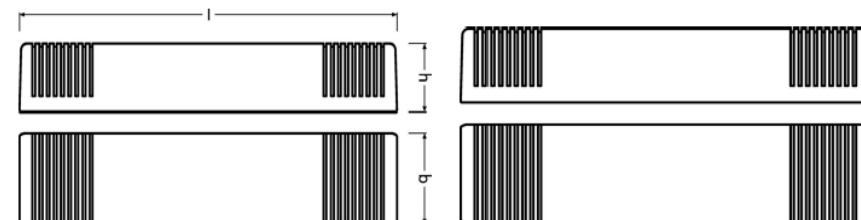
6) Maximum 60 V

7) Default current: 300 mA

8) Ripple average at 100 Hz

9) Partial load 0.8...12.6 W

Dimensions & weight



Length	130.0 mm
Width	30.0 mm
Height	22.2 mm
Mounting hole spacing, length	116.0 mm
Cable cross-section, input side	0.75...1.5 mm ² 1)
Cable cross-section, output side	0.75...1.5 mm ² 1)
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Product weight	68.50 g

1) Solid or flexible leads

Colors & materials

Casing material	80% recycled plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20...+50 / -20...+45 °C
Maximum temperature at t_c test point	80 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-20...85 °C
Permitted rel. humidity during operation	5...85 % ²⁾

1) Maximum at the T_c -point

2) Maximum 56 days/year at 85 %

IT DALI 15/220-240/350 CS

OSRAM

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

IT DALI 15/220-240/350 CS

ICUTRONIC DALI CS | Constant Current Compact – Dimmable



Product family features

- Supply voltage: 220...240 V
- Line voltage: 198...264 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Lifetime: up to 50,000 h (temperature at max. t_c)
- Type of protection: IP20

Product family benefits

- Safety ensured by OSRAM (SELV)
- DALI-2 certified
- High flexibility due to eight different output currents
- Touch DIM application: easy to control via pushbutton or sensor
- Easy to use in corridors and restrooms because of three-level Corridor function
- Higher quality of light thanks to low output ripple current
- Small housing for flexible luminaire designs
- Housing from 80% recycled plastic

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	176...276 V
Current set	DipSwitch
Total harmonic distortion	< 10 % ²⁾
Power factor λ	0.57C...0.98
Efficiency in full-load	85 % ³⁾
Device power loss	2.7 W ⁴⁾
Protective conductor current	<0.7 mA
Inrush current	18 A ⁶⁾
Max. ECG no. on circuit breaker 10 A (B)	46
Max. ECG no. on circuit breaker 16 A (B)	74
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	9...42 V ⁶⁾
U-OUT (working voltage)	60 V
Nominal output current	100 mA / 120 mA / 150 mA / 180 mA / 200 mA / 250 mA / 300 mA / 350 mA ⁷⁾
Default output current	350 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 % ⁸⁾
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	0.9...14.7 W
Maximum output power	14.7 W
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Networked standby power	<0.50 W ³⁾

1) Permitted voltage range

2) At full load, 220...240 V, 50 Hz / see graphs

3) at 230 V, 60 Hz

4) Maximum / Full load, 230 Vac, 50Hz / 60Hz

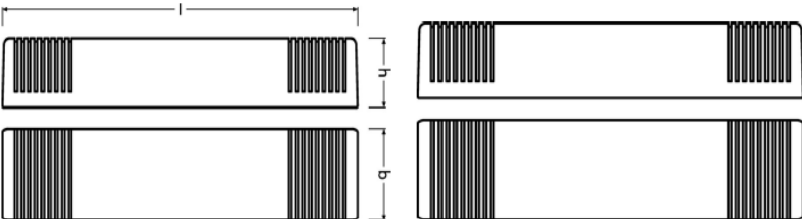
5) $t_{width} = 100 \mu s$ (measured at 50 % I_{peak})

6) Maximum 60 V

7) Default current 350 mA

8) Ripple average at 100 Hz

Dimensions & weight



Length	130.0 mm
Width	30.0 mm
Height	22.2 mm
Mounting hole spacing, length	116.0 mm
Cable cross-section, input side	0.75...1.5 mm ^{2 1)}
Cable cross-section, output side	0.75...1.5 mm ^{2 1)}
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Product weight	68.50 g

1) Solid or flexible leads

Colors & materials

Casing material	80% recycled plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20...+50 / -20...+45 °C
Maximum temperature at t_c test point	80 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ²⁾

1) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

OTI DALI 15W/1050MA NFC KOMPAKT DRIVER

OSRAM

Product datasheet

OSRAM

OTi DALI 15/220...240/1A0 NFC

OPTOTRONIC Intelligent – DALI NFC | Compact constant current LED driver – Dimmable



Product family features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- According to EN 61347-1, 61347-2-13, 61384
- RI suppression: to EN 55015/CISPR 15
- Immunity according to EN 61547
- Lifetime: up to 100,000 h
- Type of protection: IP20

Product family benefits

- Versatile DALI window driver due to flexible output characteristic
- Locking and unlocking of luminaire/driver data
- Advanced luminaire/driver data (power, energy, operating hours...) for analytics
- DALI-2 certified incl. Parts 251, 252, 253
- Easy and fast output current setting via NFC
- Very high efficiency
- High-quality dimming of 1...100 % by amplitude dimming

Versatile scope of application due to OSRAM DALI Technology:

- Suitable for emergency installations (acc. to EN 60598-2-22 and IEC 61347-2-13, appendix I.) thanks to DC detection (0 Hz, pulsating DC), on/off switchable
- Feedback of power consumption and operating hours (Fit for SMART GRID)
- Suitable for buildings according to EPBD/BREEAM/LEED due to automatic Constant Lumen Output setting

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	176...276 V
Total harmonic distortion	< 10 % ²⁾
Power factor λ	0.95
ECG efficiency	88 % ³⁾
Device power loss	2.4 W
Power loss in stand-by mode	≤ 0.27 W
Inrush current	5 A ⁴⁾
Max. ECG no. on circuit breaker 10 A (B)	82
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	130
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	7.5...54 V ⁵⁾
U-OUT (working voltage)	60 V
Nominal output current	150...1050 mA ⁶⁾
Default output current	350 mA
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 2 % ⁷⁾
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	18 W ⁸⁾
Galvanic isolation	SELV
Current set	DALI / NFC

¹⁾ Permitted voltage range

²⁾ At full load, 220...240 V, 50 Hz / see graphs

³⁾ Typical / At full load and 230 V

⁴⁾ t_{width} = 220 μ s (measured at 50 % i_{peak})

⁵⁾ Maximum 60 V

⁶⁾ a3%

⁷⁾ Ripple average at 100 Hz

⁸⁾ Partial load 3...18 W

Product datasheet

Dimming interface	DALI / Touch DIM / Touch DIM Sensor
Dimming range	1...100 % ¹⁾
Dimming method	Amplitude Modulation
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Max. cable length to lamp/LED module	2.0 m
Suitable for fixtures with prot. class	I / II
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Programmable
Programming interface	DALI, NFC
Number of channels	1
DALI-2 Energy Data	Yes ²⁾
DALI-2 Diagnostic Data	Yes ³⁾

¹⁾ For maximum nominal output current

²⁾ Acc. DALI part 252

³⁾ Acc. DALI part 253

Programming

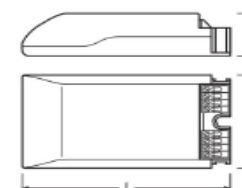
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Programming device	DALI / NFC

Programmable features

Constant Lumen	Yes
Lamp Operating Time	Yes
Driver Guard	Yes
DALI Settings	Yes
Emergency Mode	Yes
DALI-2 Luminaire Data	Yes ¹⁾
Configuration Lock	Yes
Soft Switch Off	Yes
Dim to Dark	Yes
TouchDIM + Sensor	Yes
OEM Key	No

¹⁾ Acc. DALI part 251

Dimensions & weight



Product weight	100.00 g
Cable cross-section, input side	0.2...1.5 mm ² ¹⁾
Cable cross-section, output side	0.2...1.5 mm ² ¹⁾
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Length	95.0 mm
Width	53.0 mm
Height	30.0 mm

¹⁾ Solid or flexible leads

Colors & materials

Casing material	Plastic
-----------------	---------

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	80 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ²⁾

¹⁾ Maximum at the Tc-point

²⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 / 100000 h ¹⁾
--------------	--------------------------------

¹⁾ $T_{c} = 80^{\circ}\text{C}$, 0.2% / 1,000 h failure rate / $T_{c} = 70^{\circ}\text{C}$, 0.1% / 1,000 h failure rate

Capabilities

Dimmable	Yes
----------	-----

IT DALI 20W/1050MA KOMPAKT DRIVER

OSRAM

Light is OSRAM

OSRAM

Product data sheet IT DALI 20/220-240/1A0 E

Programmable Constant Current LED Driver

ICUTRONIC LED Power Supply is the smart choice for outdoor lighting applications. This driver offers DALI-2 and AstroDIM dimming plus a wide operating range. The combination of AstroDIM and DALI interface allow energy-efficient island mode as well as connectivity to digital Lighting Controls infrastructures.

Benefits

- Wide operating range: 350mA – 1050mA
- High surge protection up to 10kV
- Long lasting and high reliability
- Suitable for class I/II luminaires
- DALI-2 certified DATA functionality (compliant to -251, -252, 253)

Applications

- Street and Urban lighting
- Industrial lighting
- Suitable for outdoor applications in fixtures with IP > 54

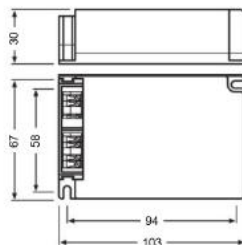
Approvals



In preparation, if not already printed on product label

Product Features

- Output current range 350-1050 mA
- Output power up to 20 W
- SELV, Uout: 15 – 29 Vdc
- High surge capability up to 10 kV
- Wide t_a range -40 – +60°C
- DALI-2 compliant (incl. DATA)
- AstroDIM functionality
- Constant lumen function
- Full analog dimming
- 5 years guarantee

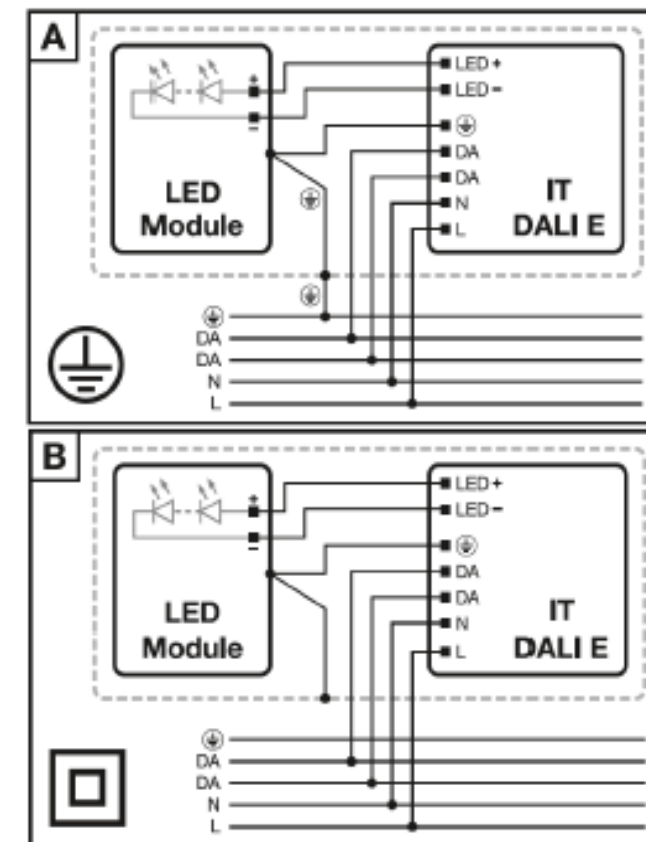


Housing material: plastic, black

Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Nominal Voltage	220 - 240	V	
	Nominal frequency	50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	n/a	V	
	Maximum voltage	300	V _{ac}	Above 270V the load might switch off
	Nominal current	0.1	A	Full load 230V, 50Hz
	Total Harmonic Distortion (THD)	< 10	%	Full load 230V, 50Hz
	Power factor	≥ 0.95		Full load 230V, 50Hz
	Efficiency	≥ 84	%	Full load 230V, 50Hz
	Power losses	4	W	Maximum, full load
	No-load power	n/a	W	Load switching on output side is not permitted
	Stand-by power	< 0.5	W	
	Protection class	I + II		Suitable for class I luminaires
	Touch Current	< 0.35	mA _{pk}	Through Equip. PIN, LED Output floating, acc. to EN 60598-1 Annex G and EN 61347-1 Annex A
	Inrush current	< 27	A _{pk}	Max. t_h = 260 μ s
OUTPUT	Max. units per circuit breaker	810: 11 818: 18 825: 28		
	Nominal voltage range	15 – 29	V	
	Maximum voltage	60	V	No load protection
	Nominal current range	350 - 1050	mA	Min. output current 70mA Default current: 700mA
	Current accuracy	+/- 5	%	
	Current ripple	< 5	%	Ripple / average @ 100 Hz
DIM	Nominal power range	6 – 20	W	
	Maximum power	20	W	LED output
	Galvanic isolation	SELV		
	Dimming control	Yes		AstroDIM, DALI-2 (incl. Part -251, -252, -253)
ENVIRONMENT	Dimming range	10-100	%	
	Dimming technique	Analog		
	PWM frequency	n/a	Hz	
	Ambient temperature range t_a	-40...+60	°C	
	Maximum case temperature t_c	75	°C	Measured on t_c point indicated of the product label, to not exceeded
	Max. case temp. in fault condition	120	°C	
	Storage temperature range	-25...+80	°C	
	Relative humidity	5...85	%	Not condensing
	Surge transient protection	6kV 8kV (10kV single pulse)	kV	L - N acc to EN 61547 L/N – PE acc to EN 61547
	Environmental rating	Outdoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50'000 100'000	hrs	t_a = 65°C, 0.2% / 1'000 h failure rate t_a = 55°C, 0.1% / 1'000 h failure rate

Wiring Diagram



- Wire cross section: 0.2 - 1.5 mm²
- Wire peeling length: 8.5 - 8.5 mm

ETI DALI 25W/500MA LINEER DRIVER

OSRAM

Product datasheet

OSRAM

ETi DALI 25/220...240/500 LT2 L

ICUTRONIC Intelligent – DALI (SELV) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- SELV driver

Product family benefits

- Versatile SELV DALI driver up to 75 W due to flexible output characteristic
- Fully programmable via software (DALI Interface)
- Flexible current setting (RSet)
- Lifetime: up to 100,000 h (temperature at $T_c = 65\text{ °C}$, max. 10 % failure rate)
- High-quality dimming of 10...100 % by amplitude dimming
- No TouchDIM nor Corridor Function
- High quality of light thanks to <3% output ripple current
- High efficiency
- Low standby consumption $\leq 0.5\text{ W}$
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Current set	DALI / Rset / Programmable
Total harmonic distortion	< 20 %
Power factor λ	> 0.95
ECG efficiency	up to 86 %
Device power loss	3.0 W
Power loss in stand-by mode	<0.5 W
Inrush current	$\leq 10\text{ A}$
Max. ECG no. on circuit breaker 10 A (B)	30
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	50
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	20...51 V
U-OUT (working voltage)	< 60 V
Nominal output current	180...500 mA
Default output current	180 mA
Output current tolerance	$\pm 7\text{ %}$
Output ripple current (100 Hz)	< 3 %
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	3.6...25.5 W
Galvanic isolation	SELV

Product datasheet

Dimmable	Yes
Dimming interface	DALI-2
Dimming range	10...100 %
Dimming method	Full analogue dimming
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Max. cable length to lamp/LED module	2.0 m
Suitable for fixtures with prot. class	I
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Control interface	DALI
Number of channels	1

Programming

Tuner4TRONIC Field App	Yes
Programming device	DALI magic

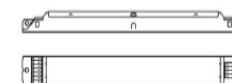
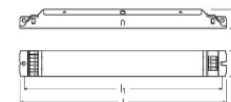
Certificates & standards

Approval marks – approval	CE / ENEC 05 / EL / EAC / CCC / BIS / RCM
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 62386/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547
Type of protection	IP20

Logistical data

Commodity code	850440829000
----------------	--------------

Dimensions & weight



Mounting hole spacing, length	270.0 mm
Product weight	170.00 g
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Length	280.0 mm
Width	30.0 mm
Height	21.0 mm

Colors & materials

Casing material	Metal
-----------------	-------

Temperatures & operating conditions

Ambient temperature range	-25...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	100000 / 50000 h ¹⁾
--------------	--------------------------------

¹⁾ At maximum $T_c = 65\text{ °C}$ / 10% failure rate

Capabilities

Programming interface	Rset
-----------------------	------

IT DALI 30/220-240/700 CS KOMPAKT DRIVER

OSRAM

inventronics

OSRAM

product - technical datasheet

IT DALI 30/220-240/700 CS

ICUTRONIC DALI CS | Constant Current Compact – Dimmable



Product family features

- Supply voltage: 220...240 V
- Line voltage: 198...264 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Lifetime: up to 50,000 h (temperature at max. t_c)
- Type of protection: IP20

Product family benefits

- Safety ensured by OSRAM (SELV)
- DALI-2 certified
- High flexibility due to eight different output currents
- Touch DIM application: easy to control via pushbutton or sensor
- Easy to use in corridors and restrooms because of three-level Corridor function
- Higher quality of light thanks to low output ripple current
- Small housing for flexible luminaire designs
- Housing from 80% recycled plastic

inventronics

OSRAM

product - technical datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	176...276 V
Current set	DipSwitch
Total harmonic distortion	< 10 % ²⁾
Power factor λ	0.93...0.98
Efficiency in full-load	88 % ³⁾
Device power loss	3.8 W ⁴⁾
Protective conductor current	<0.7 mA
Inrush current	30 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	25
Max. ECG no. on circuit breaker 16 A (B)	40
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	15...42 V ⁶⁾
U-OUT (working voltage)	60 V
Nominal output current	350 mA / 400 mA / 450 mA / 500 mA / 550 mA / 600 mA / 650 mA / 700 mA ⁷⁾
Default output current	700 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 % ⁸⁾
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	5.3...29.4 W ⁹⁾
Maximum output power	29.4 W
Galvanic isolation DALI/main	Basic
Galvanic isolation DALI/output	SELV
Networked standby power	<0.50 W ³⁾

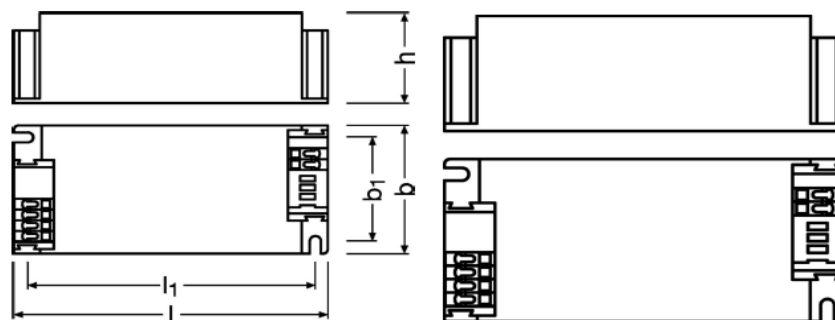
- 1) Permitted voltage range
- 2) At full load, 220...240 V, 50 Hz / see graphs
- 3) at 230 V, 50 Hz
- 4) Maximum / Full load, 230 Vac, 50Hz / 60Hz
- 5) $t_{width} = 100 \mu s$ (measured at 50 % I_{peak})
- 6) Maximum 60 V
- 7) Default current 700 mA
- 8) Ripple average at 100 Hz
- 9) Partial load 5.3...29.4 W

inventronics

OSRAM

product - technical datasheet

Dimensions & weight



Length	97.0 mm
Width	43.0 mm
Height	29.5 mm
Mounting hole spacing, length	88.0 mm
Mounting hole spacing, width	34.0 mm
Cable cross-section, input side	0.5...1.5 mm ² / 0.75...1.5 mm ² 1)
Cable cross-section, output side	0.5...1.5 mm ² / 0.75...1.5 mm ² 1)
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Product weight	112.50 g

1) Build in/ Independent

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	80 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-20...85 °C
Permitted rel. humidity during operation	5...85 % ²⁾

- 1) Maximum at the Tc-point
- 2) Maximum 56 days/year at 85 %

ETI DALI 35W-700MA LINEER DRIVER

OSRAM

Product datasheet

OSRAM

ETi DALI 35/220...240/700 LT2 L

ICUTRONIC Intelligent – DALI (SELV) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- SELV driver

Product family benefits

- Versatile SELV DALI driver up to 75 W due to flexible output characteristic
- Fully programmable via software (DALI Interface)
- Flexible current setting (RSet)
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- High-quality dimming of 10...100 % by amplitude dimming
- No TouchDIM nor Corridor Function
- High quality of light thanks to <3% output ripple current
- High efficiency
- Low standby consumption $\leq 0.5\text{ W}$
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

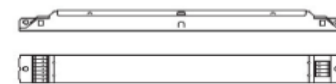
Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Current set	DALI / Rset / Programmable
Total harmonic distortion	< 20 %
Power factor λ	> 0.95
ECG efficiency	up to 87 %
Device power loss	4.0 W
Power loss in stand-by mode	<0.5 W
Inrush current	$\leq 10\text{ A}$
Max. ECG no. on circuit breaker 10 A (B)	21
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	35
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	20...51 V
U-OUT (working voltage)	< 60 V
Nominal output current	350...700 mA
Default output current	350 mA
Output current tolerance	$\pm 7\%$
Output ripple current (100 Hz)	< 3 %
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	7.0...35.7 W
Galvanic isolation	SELV

Dimensions & weight



Mounting hole spacing, length	270.0 mm
Product weight	170.00 g
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Length	280.0 mm
Width	30.0 mm
Height	21.0 mm

Colors & materials

Casing material	Metal
-----------------	-------

Temperatures & operating conditions

Ambient temperature range	-25...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	100000 / 50000 h ¹⁾
--------------	--------------------------------

¹⁾ At maximum $T_c = 65^\circ\text{C}$ / 10% failure rate

Capabilities

Programming interface	Rset
-----------------------	------

IT DALI 42W/1050MA KOMPAKT DRIVER

OSRAM

Product datasheet

OSRAM

IT DALI 42/220...240/1A0 CS

ICUTRONIC DALI CS | Constant Current Compact – Dimmable



Product family features

- Supply voltage: 220...240 V
- Line voltage: 198...264 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Lifetime: up to 50,000 h (temperature at max. t_c)
- Type of protection: IP20

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	176...276 V
Total harmonic distortion	< 10 % ²⁾
Power factor λ	0.98
Efficiency in full-load	89 % ³⁾
Device power loss	5.4 W ⁴⁾
Protective conductor current	<0.7 mA
Inrush current	30 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	18
Max. ECG no. on circuit breaker 10 A (C)	27
Max. ECG no. on circuit breaker 16 A (B)	28
Max. ECG no. on circuit breaker 16 A (C)	42
Max. ECG no. on circuit breaker 25 A (B)	44
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	15...42 V ⁶⁾
U-OUT (working voltage)	60 V
Nominal output current	700 / 750 / 800 / 850 / 900 / 950 / 1000 / 1050 mA ⁷⁾
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 % ⁸⁾
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	10.5...42 W ⁹⁾
Maximum output power	42 W
Power loss in stand-by mode	<0.5 W
Galvanic isolation primary/secondary	SELV
Current set	DipSwitch
Default output current	900 mA
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Networked standby power	<0.50 W ³⁾

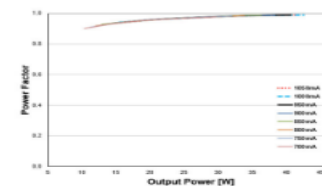
¹⁾ Permitted voltage range

²⁾ At full load, 220...240 V, 50 Hz / see graphs

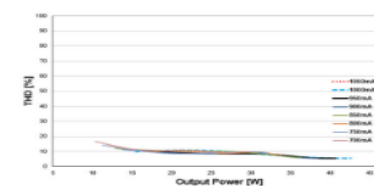
³⁾ at 230 V, 50 Hz

⁴⁾ At 230 V, Input power 42.7 W max.

Product datasheet

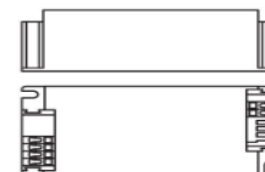


IT DALI 42 220 240 1A0 CS Typical Power Factor Vs Load



IT DALI 42 220 240 1A0 CS Typical THD Vs Load

Dimensions & weight



Mounting hole spacing, length	88.0 mm
Mounting hole spacing, width	34.0 mm
Product weight	137.50 g
Cable cross-section, input side	0.5...1.5 / 0.75...1.5 mm ² ⁴⁾
Cable cross-section, output side	0.5...1.5 / 0.75...1.5 mm ² ⁴⁾
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Length	97.0 mm
Width	43.0 mm
Height	29.5 mm

Product family benefits

- Safety ensured by OSRAM (SELV)
- DALI-2 certified
- High flexibility due to eight different output currents
- Touch DIM application: easy to control via pushbutton or sensor
- Easy to use in corridors and restrooms because of three-level Corridor function
- Higher quality of light thanks to low output ripple current
- Small housing for flexible luminaire designs
- Housing from 80% recycled plastic

ETi DALI 75W/500MA LINEER DRIVER

OSRAM

inventronics

Product datasheet

ETi DALI 75/220...240/500 D LT2 L

ICUTRONIC Intelligent – DALI (non-isolated) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Supply voltage: 220...240 V
- Available with output current range: up to 500 mA
- Non-isolated drivers

Product family benefits

- Versatile non-isolated DALI driver up to 75 W due to flexible output characteristic
- Fully programmable via software (DALI Interface)
- Flexible current setting (RSet)
- Lifetime: up to 100,000 h (temperature at $T = 65^\circ\text{C}$, max. 10 % failure rate)
- High-quality dimming of 10...100 % by amplitude dimming
- No TouchDIM nor Corridor Function
- High quality of light thanks to <4% output ripple current
- High efficiency
- Low standby power consumption: < 0.25 W
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

inventronics

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Current set	DALI / Rset / Programmable
Total harmonic distortion	< 10 %
Power factor λ	0.52C...0.98
Efficiency in full-load	94 % ¹⁾
Device power loss	6.0 W
Inrush current	≤ 34 A
Max. ECG no. on circuit breaker 10 A (B)	15
Max. ECG no. on circuit breaker 16 A (B)	25
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	54...240 V
U-OUT (working voltage)	< 250 V
Nominal output current	125...500 mA
Default output current	60 mA ²⁾
Output current tolerance	± 5 %
Output current LEDset open	60 mA
Output current LEDset shorted	125 mA
Output ripple current (100 Hz)	< 4 %
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	8.0...75 W
Maximum output power	75 W
Galvanic isolation	Non isolated

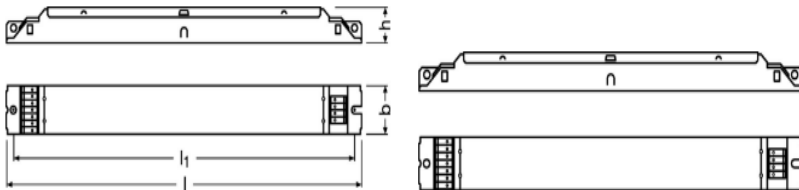
1) at 230 V, 50 Hz

2) LEDset deactivated

inventronics

Product datasheet

Dimensions & weight



Length	280.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	270.0 mm
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Product weight	206.00 g

Colors & materials

Casing material	Metal
-----------------	-------

Temperatures & operating conditions

Ambient temperature range	-25...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾
Permitted relative humidity at storage	5...85 %

1) Maximum 56 days/year at 85 %

OTI DALI 75W-1400mA NFC LINEER DRIVER

OSRAM

Product datasheet

OSRAM

OTi DALI 75/220...240/1A4 NFC TW L

OPTOTRONIC Intelligent Tunable White – DALI (SELV) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 75 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Usable as DT6 (2-channel) or DT8 (Tunable White) driver
- Available with output current range: up to 1,400 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- SELV driver

Product family benefits

- Control of standard white or Tunable White light acc. DALI device type 8 (DT8)
- TouchDIM Tunable White integrated for use without additional LMS
- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- High-quality dimming of 1...100 % (amplitude and/or PWM selectable by software)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Current set	DALI / NFC / Programmable
Total harmonic distortion	< 10 %
Power factor λ	> 0.95
ECG efficiency	up to 90 %
Device power loss	6.0 W
Power loss in stand-by mode	<0.2 W
Inrush current	23 A
Max. ECG no. on circuit breaker 10 A (B)	13
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	20
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	15...54 V
U-OUT (working voltage)	< 60 V
Nominal output current	400...1400 mA
Default output current	400 mA
Output current tolerance	± 3 %
Output ripple current (100 Hz)	< 1 %
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	8.0...75 W
Galvanic isolation	SELV

Product datasheet

Capabilities

Programming interface	DALI, NFC
Dimmable	Yes
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor
Dimming range	1...100 %
Dimming method	Full analogue dimming / AM/PWM selectable
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Max. cable length to lamp/LED module	2.0 m
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Programmable
Control interface	DALI
Detection angle (Light sensor)	-
Detection angle (PIR)	-
Number of channels	2

Programming

Box programming	Yes
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Programming device	DALI magic / NFC Scanner

Programmable features

Operating Current	Yes
Constant Lumen	Yes
Lamp Operating Time	Yes
Driver Guard	Yes
DALI Settings	Yes
Emergency Mode	Yes
Soft Switch Off	Yes
Dim to Dark	Yes
TouchDIM - Sensor	Yes
Corridor Functionality	Yes

Product datasheet

Dimensions & weight



Mounting hole spacing, length	350.0 mm
Product weight	300.00 g
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.5...9.5 mm
Wire preparation length, output side	8.5...9.5 mm
Length	360.0 mm
Width	30.0 mm
Height	21.0 mm

Colors & materials

Casing material	Metal
-----------------	-------

Temperatures & operating conditions

Ambient temperature range	-25...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 / 100000 h
--------------	------------------

Additional product data

Encapsulated	No
--------------	----

ETI DALI 75W/1400MA LINEER DRIVER

OSRAM

Product datasheet

OSRAM

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Current set	DALI / Rset / Programmable
Total harmonic distortion	< 20 %
Power factor λ	> 0.95
ECG efficiency	up to 89 %
Device power loss	7.0 W
Power loss in stand-by mode	<0.5 W
Inrush current	$\leq$ 20 A
Max. ECG no. on circuit breaker 10 A (B)	11
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	18
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	20...51 V
U-OUT (working voltage)	< 60 V
Nominal output current	600...1400 mA
Default output current	600 mA
Output current tolerance	$\pm$ 7 %
Output ripple current (100 Hz)	< 3 %
Output PSTLM	$\leq$ 1
Output SVM	$\leq$ 0.4
Nominal output power	12.0...71.4 W
Galvanic isolation	SELV

Product datasheet

Dimmable	Yes
Dimming interface	DALI-2
Dimming range	10...100 %
Dimming method	Full analogue dimming
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Max. cable length to lamp/LED module	2.0 m
Suitable for fixtures with prot. class	I
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Control interface	DALI
Number of channels	1

Programming

Tuner4TRONIC Field App	Yes
Programming device	DALI magic

Certificates & standards

Approval marks – approval	CE / ENEC 05 / EL / EAC / CCC / BIS / RCM
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 62386/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547
Type of protection	IP20

Logistical data

Commodity code	850440829000
----------------	--------------

Dimensions & weight



Mounting hole spacing, length	270.0 mm
Product weight	170.00 g
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Length	280.0 mm
Width	30.0 mm
Height	21.0 mm

Colors & materials

Casing material	Metal
-----------------	-------

Temperatures & operating conditions

Ambient temperature range	-25...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	100000 / 50000 h ¹⁾
--------------	--------------------------------

¹⁾ At maximum T_c = 65°C / 10% failure rate

Capabilities

Programming interface	Rset
-----------------------	------

ETi DALI 75/220...240/1A4 LT2 L

ICUTRONIC Intelligent – DALI (SELV) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- SELV driver

Product family benefits

- Versatile SELV DALI driver up to 75 W due to flexible output characteristic
- Fully programmable via software (DALI Interface)
- Flexible current setting (RSet)
- Lifetime: up to 100,000 h (temperature at T_c = 65 °C, max. 10 % failure rate)
- High-quality dimming of 10...100 % by amplitude dimming
- No TouchDIM nor Corridor Function
- High quality of light thanks to <3% output ripple current
- High efficiency
- Low standby consumption $\leq$ 0.5 W
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

OTi DALI 80W-24V SABİT VOLTAJ 1CH

OSRAM

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

OTi DALI 80/220-240/24 1CH G3

CV Power supplies with DALI

Product family features

- Dimmable via Touch DIM
- Available as single-channel or multi-channel with DT6 and DT8 in one device
- Dimming range: 0.1...100 % (for 50-80-160W) or 1...100 % (for 30W)
- Line frequency: 0 Hz | 50 Hz | 60 Hz



Product family benefits

- Intelligent power matching thanks to Smart power supply
- Form factor for mounting on the cove or in luminaires
- No stroboscopic effect thanks to patented high PWM frequency management (> 2 kHz)
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- DALI message detection "LED Module failure"
- IP rating: IP20

Technical data

Electrical data

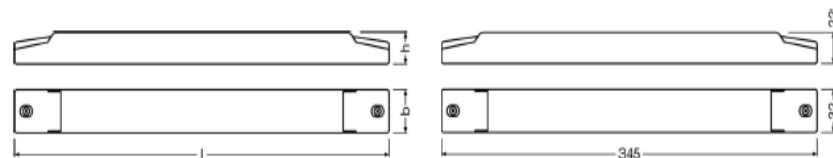
Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Total harmonic distortion	< 5 %
Power factor λ	0.89C...0.99
Efficiency in full-load	93% ¹⁾
Device power loss	6.0 W
Inrush current	46 A
Max. ECG no. on circuit breaker 10 A (B)	9
Max. ECG no. on circuit breaker 16 A (B)	15
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	24 V ²⁾
U-OUT (working voltage)	24.2 V
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	80 W
Maximum output power	80 W ³⁾
Galvanic isolation	SELV

1) at 230 V, 50 Hz

2) DC voltage

3) at steady state

Dimensions & weight



Length	346.0 mm
Width	32.0 mm
Height	22.0 mm
Mounting hole spacing, length	300.6 mm
Cable cross-section, input side	0.5...2.5 mm²
Cable cross-section, output side	0.2...1.5 mm²
Wire preparation length, input side	6.0 mm
Wire preparation length, output side	5.0 mm
Product weight	191.00 g

Colors & materials

Casing material	Plastic
-----------------	---------

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

1) Maximum 56 days/year at 85 %

IT DALI 110W-1050MA DRIVER

OSRAM

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

IT DALI 110/220-240/1A0 E

ICUTRONIC - DALI (AstroDIM) IP20 | Constant current LED drivers



Product family features

- Supply voltage: 220...240 V
- AstroDim functionality
- Constant Lumen Output (CLO)
- Available with different wattage: 20 W, 40 W, 75 W, 110 W, 150 W, 200 W
- Output current range 350...1050 mA
- DALI-2 certified (Part 251, 252, 253)
- DALI dimming (min.10%)

Product family benefits

- Versatile DALI driver due to flexible output characteristic
- High surge protection: up to 10 kV (single pulse or more)
- Long lasting and high reliability
- Fully programmable via T4T software (DALI / AstroDIM / Constant Lumen)
- 5 years guarantee
- Great flexibility due to wide operating temperature range of up to -40...60 °C (+55°C for some products)
- Lifetime: up to 100,000 h (depending on T_c temperature, max. 10 % failure rate)
- High efficiency
- High-quality amplitude dimming

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 10 % ¹⁾
Power factor λ	0.84C...0.99 ²⁾
Efficiency in full-load	92.5 % ³⁾
Device power loss	9.0 W ⁴⁾
Inrush current	76 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	8 ⁶⁾
Max. ECG no. on circuit breaker 16 A (B)	13 ⁶⁾
Surge capability (L/N-Ground)	10 kV ⁷⁾
Surge capability (L-N)	6 kV ⁸⁾
Nominal output voltage	75...157 V
U-OUT (working voltage)	200 V
Nominal output current	350...1050 mA ⁹⁾
Default output current	700 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< ±5 % ¹⁰⁾
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	110 W
Maximum output power	110 W
Galvanic isolation	Double

1) At full load, 230 V, 50 Hz / see graphs

2) Full load at 230 V / 50 Hz

3) at 230 V, 50 Hz

4) At Full load, 230 V, 50 Hz

5) Max, t_h = 135µs

6) Type B

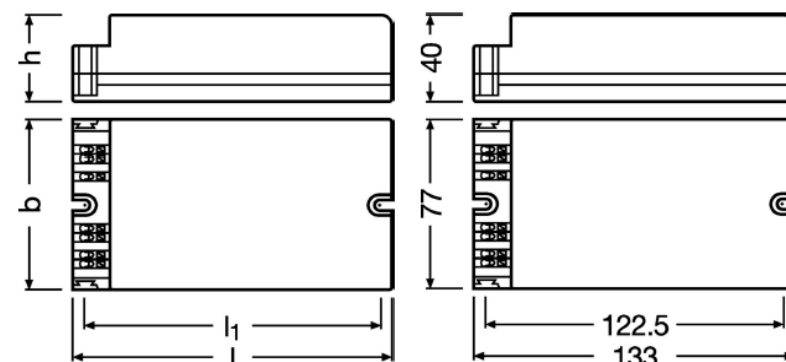
7) EQUI @ 12 Ohm acc. to EN 61547

8) @ 2 Ohm, acc. to EN61547

9) Default 700 mA; 200...1050 mA adjustable

10) Ripple / average @ 100 Hz

Dimensions & weight



Length	133.0 mm
Width	77.0 mm
Height	40.0 mm
Mounting hole spacing, length	122.5 mm
Cable cross-section, input side	0.2...1.5 mm* ¹⁾
Cable cross-section, output side	0.2...1.5 mm* ¹⁾
Wire preparation length, input side	8.5...9.5 mm
Wire preparation length, output side	8.5...9.5 mm
Product weight	580.00 g

1) Flexible / Solid leads

Colors & materials

Casing material	Plastic
-----------------	---------

Temperatures & operating conditions

Ambient temperature range	-40...+60 °C
Maximum temperature at test point	90 °C ¹⁾
Max.housing temperature in case of fault	120 °C
Temperature range at storage	-25...80 °C
Permitted rel. humidity during operation	5...85 % ²⁾

1) Measured on t_c point indicated on the product label.

2) Non-condensing

IT DALI 150W-1050MA DRIVER

OSRAM

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

inventronics

OSRAM

product - technical datasheet

IT DALI 150/220-240/1A0 E

ICUTRONIC - DALI (AstroDIM) IP20 | Constant current LED drivers



Product family features

- Supply voltage: 220...240 V
- AstroDim functionality
- Constant Lumen Output (CLO)
- Available with different wattage: 20 W, 40 W, 75 W, 110 W, 150 W, 200 W
- Output current range 350...1050 mA
- DALI-2 certified (Part 251, 252, 253)
- DALI dimming (min.10%)

Product family benefits

- Versatile DALI driver due to flexible output characteristic
- High surge protection: up to 10 kV (single pulse or more)
- Long lasting and high reliability
- Fully programmable via T4T software (DALI / AstroDIM / Constant Lumen)
- 5 years guarantee
- Great flexibility due to wide operating temperature range of up to -40...60 °C (+55°C for some products)
- Lifetime: up to 100,000 h (depending on T_c temperature, max. 10 % failure rate)
- High efficiency
- High-quality amplitude dimming

Technical data

Electrical data

Device power loss	12.5 W ¹⁾
Nominal output voltage	110...214 V
Nominal output current	350...1050 mA ²⁾
Inrush current	69 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	6 ⁴⁾
Max. ECG no. on circuit breaker 16 A (B)	10 ⁴⁾
Nominal output power	150 W
Input voltage AC	198...264 V
Power factor λ	0.86C...0.99 ⁵⁾
U-OUT (working voltage)	310 V
Surge capability (L-N)	6 kV ⁶⁾
Surge capability (L/N-Ground)	10 kV ⁷⁾
Mains frequency	50/60 Hz
Nominal input voltage	220...240 V
Total harmonic distortion	< 10 % ⁸⁾
Minimum output current	70 mA ⁹⁾
Output current tolerance	±5 %
Maximum output power	150 W
Galvanic isolation	basic
Output ripple current (100 Hz)	< ±5 % ¹⁰⁾

1) At Full load, 230 V, 50 Hz

2) Default 700 mA; 200...1050 mA adjustable

3) Max, t_{th} = 200µs

4) Type B

5) Full load at 230 V / 50 Hz

6) @ 2 Ohm, acc. to EN61547

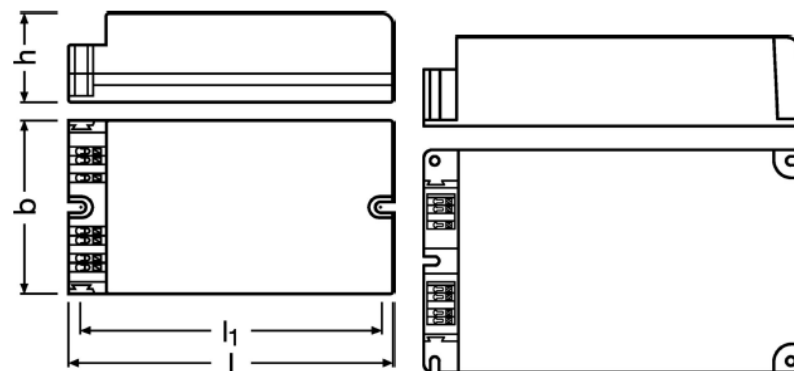
7) Single pulse, EQUI @ 12 Ohm acc. to EN 61547

8) At full load, 230 V, 50 Hz / see graphs

9) Physical Minimum Dimming Current

10) Ripple / average @ 100 Hz

Dimensions & weight



Product weight	780.00 g
Mounting hole spacing, length	134.0 mm
Wire preparation length, output side	8.5...9.5 mm
Wire preparation length, input side	8.5...9.5 mm
Cable cross-section, output side	0.2...1.5 mm* ¹⁾
Cable cross-section, input side	0.2...1.5 mm* ¹⁾
Length	150.0 mm
Height	40.0 mm

1) Flexible / Solid leads

Colors & materials

Casing material	Plastic
-----------------	---------

Temperatures & operating conditions

Max.housing temperature in case of fault	120 °C
Maximum temperature at tc test point	85 °C ¹⁾
Ambient temperature range	-40...+55 °C
Temperature range at storage	-25...80 °C
Permitted rel. humidity during operation	5...85 % ²⁾

1) Measured on tc point indicated on the product label.

2) Non-condensing

ÖNEMLİ:

- Ürünlerin çalışma ömrü çevre koşullarına göre değişkenlik gösterebilir. Bu sebeple ürün talep etmeden önce datasheet talep etmenizi rica ederiz.
- **100W üzeri lineer olarak ve DALI driver grubunda başka ürünler de bulunmaktadır.** Katalog genel olarak müşteri taleplerine göre hazırlanmıştır.
- Özel bir ürün talebiniz olması halinde bizimle iletişime geçmenizi rica ederiz.
- Katalog; datasheet üzerinden müşterilerimize kolay ürün seçmelerine yardımcı olmak için hazırlanmıştır. Katalogda yer alan bilgileri mutlaka datasheet talep edip, kontrol ediniz ve ya firmamızdan teyit ediniz.
- www.hastechind.com