



# LED Driver: LT10



## Markets & Applications



## Technical Data

### Output Data

Model	Voltage	Current	Article No.
LT10-16	1-15 VDC	700 mA	1895089
LT10-32	2-30 VDC	350 mA	1895008

## Features

- High Quality: LED Drivers Made in Germany
- Current & Voltage Regulation within one Device
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- Applicable in smallest Profiles thanks to very compact Design (only 21x30 mm in Cross Section)
- 220-240 V Input: Optimized for 230 V Applications
- Minimal Output Tolerances via Laser Trimming
- Customer-specific Outputs on Demand
- High Efficiency: Typ. 83%
- Low Standby Losses  $\leq 0,2W$
- Safe Operation:
  - Over Temperature Protection
  - Continuously Short Circuit Proof
  - Overload Protection
  - No-Load Protection
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Energy Conservation



### Safety



IP20

### Compliance

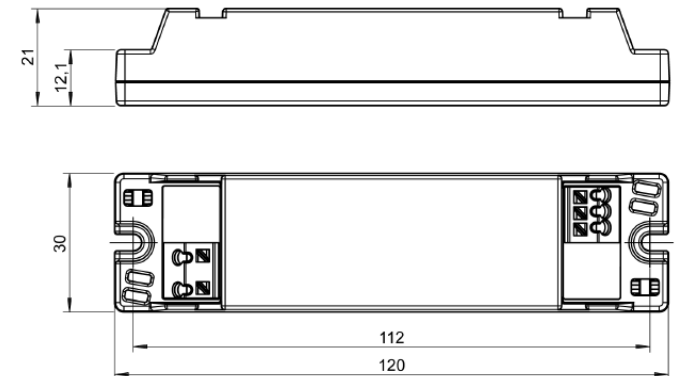
#### Low Voltage

- EN61347-1
- EN61347-2-13

#### EMC

- EN55015
- EN61547
- EN61000-3-2
- EN62384

## Engineering Drawing



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# LED Driver: LT10 DB



## Markets & Applications



## Technical Data

Model	Output Data		Article No.
	Voltage	Current	
LT10-16	1-15 VDC	700 mA	1895542
LT10-32	2-30 VDC	350 mA	1895541

## Features

- High Quality: LED Drivers Made in Germany
- Current & Voltage Regulation within one Device
- Optional Connection with DIMMBox – LEDs dimmable with DALI, SwitchDIM and 1-10 V
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- Applicable in smallest Profiles thanks to very compact Design (only 21x30 mm in Cross Section)
- 220-240 V Input: Optimized for 230 V Applications
- Minimal Output Tolerances via Laser Trimming
- Customer-specific Outputs on Demand
- High Efficiency: Typ. 83%
- Low Standby Losses  $\leq 0,2W$
- Safe Operation:
  - Over Temperature Protection
  - Continuously Short Circuit Proof
  - Overload Protection
  - No-Load Protection
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Energy Conservation



### Safety



### Compliance

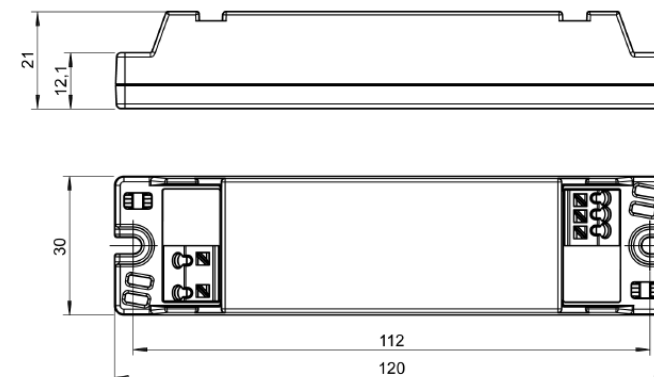
#### Low Voltage

- EN61347-1
- EN61347-2-13

#### EMC

- EN55015
- EN61547
- EN61000-3-2
- EN62384

## Engineering Drawing



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# LED Driver: LT20



## Markets & Applications



## Technical Data

Model	Output Data		Article No.
	Voltage	Current	
LT20-24	24 VDC	833 mA	1894910
LT20-28	5-28 VDC	350-700 mA	1894611
LT20-40	10-40 VDC	200-500 mA	1894612
LT20-48	15-48 VDC	100-350 mA	1894613
LT20-48	48 VDC	417 mA	1895013

## Features

- High Quality: LED Drivers Made in Germany
- Current & Voltage Regulation within one Device
- Optional Connection with DIMMBox – LEDs dimmable with DALI, SwitchDIM and 1-10 V
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- Applicable in smallest Profiles thanks to very compact Design (only 21x30 mm in Cross Section)
- Excellent Ability for Furniture Applications thanks to optionally available Protective Caps
- 220-240 V Input: Optimized for 230 V Applications
- Minimal Output Tolerances via Laser Trimming
- Customer-specific Outputs on Demand
- High Efficiency: Typ. 87%
- Low Standby Losses  $\leq 0,4W$
- Safe Operation:
  - Over Temperature Protection
  - Continuously Short Circuit Proof
  - Overload Protection
  - No-Load Protection
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Energy Conservation



### Safety



IP20

### Compliance

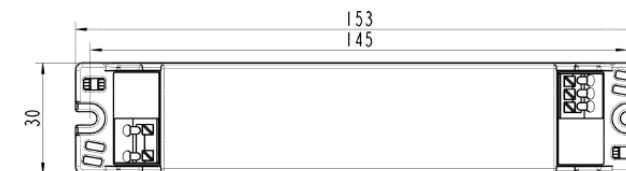
#### Low Voltage

- EN61347-1
- EN61347-2-13

#### EMC

- EN55015
- EN61000-3-2
- EN61547
- EN62384

## Engineering Drawing



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# LED Driver: LT40



## Markets & Applications



## Technical Data

### Output Data

Model	Voltage	Current	Article No.
LT40-24	24 VDC	1460 mA	1894973
LT40-24	10-24 VDC	700-1400 mA	1894614
LT40-36	15-36 VDC	500-1050 mA	1984615
LT40-48	22-48 VDC	350- 700 mA	1894616

## Features

- High Quality: LED Drivers Made in Germany
- Current & Voltage Regulation within one Device
- Optional Connection with DIMMBox – LEDs dimmable with DALI, SwitchDIM and 1-10 V
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- Applicable in smallest Profiles thanks to very compact Design (only 21x30 mm in Cross Section)
- Excellent Ability for Furniture Applications thanks to optionally available Protective Caps
- 220-240 V Input: Optimized for 230 V Applications
- Minimal Output Tolerances via Laser Trimming
- Customer-specific Outputs on Demand
- High Efficiency: Typ. 86%
- Low Standby Losses  $\leq 1W$
- Environmentally friendly with an active PFC
- Safe Operation:
  - Over Temperature Protection
  - Continuously Short Circuit Proof
  - Overload Protection
  - No-Load Protection
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Energy Conservation



### Safety



### Compliance

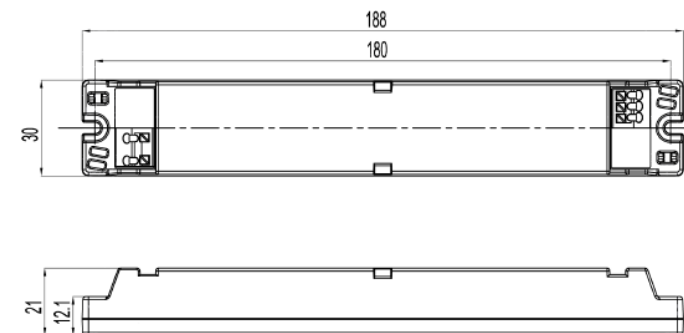
#### Low Voltage

- EN61347-1
- EN61347-2-13

#### EMC

- EN55015
- EN61547
- EN61000-3-2
- EN62384

## Engineering Drawing



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# LED Driver: LT40 IP 67



## Markets & Applications



## Technical Data

### Output Data

Model	Voltage	Current	Article No.
LT40-24	10-24 VDC	700-1400 mA	1894660
LT40-36	15-36 VDC	500-1050 mA	1984661
LT40-48	22-48 VDC	350- 700 mA	1894662

## Features

- High Quality: LED Drivers Made in Germany
- Current & Voltage Regulation within one Device
- Applicable in dusty and damp Environment (IP 67)
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- Applicable in smallest Profiles thanks to very compact Design (only 21x30 mm in Cross Section)
- 220-240 V Input: Optimized for 230 V Applications
- Minimal Output Tolerances via Laser Trimming
- Customer-specific Outputs on Demand
- High Efficiency: Typ. 86%
- Low Standby Losses  $\leq 1W$
- Environmentally friendly with an active PFC
- Safe Operation:
  - Over Temperature Protection
  - Continuously Short Circuit Proof
  - Overload Protection
  - No-Load Protection
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Energy Conservation



### Safety



### Compliance

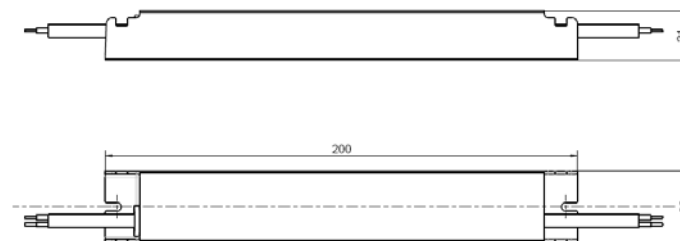
#### Low Voltage

- EN61347-1
- EN61347-2-13

#### EMC

- EN55015
- EN61547
- EN61000-3-2
- EN62384

## Engineering Drawing



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# LED Driver: LT60



## Markets & Applications



## Technical Data

### Output Data

Model	Voltage	Current	Article No.
LT60-24	24 VDC	2500 mA	1894681
LT60-36	20-36 VDC	1100-1600 mA	1895136
LT60-48	32-48 VDC	700-1200 mA	1895106

## Features

- High Quality: LED Drivers Made in Germany
- Current & Voltage Regulation within one Device
- Optional Connection with DIMMBox – LEDs dimmable with DALI, SwitchDIM and 1-10 V
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- Applicable in smallest Profiles thanks to very compact Design (only 21x30 mm in Cross Section)
- Excellent Ability for Furniture Applications thanks to optionally available Protective Caps
- 220-240 V Input: Optimized for 230 V Applications
- Minimal Output Tolerances via Laser Trimming
- Customer-specific Outputs on Demand
- High Efficiency: Typ. 91%
- Low Standby Losses  $\leq 1W$
- Environmentally friendly with an active PFC
- Safe Operation:
  - Over Temperature Protection
  - Continuously Short Circuit Proof
  - Overload Protection
  - No-Load Protection
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Energy Conservation



### Safety



IP20

### Compliance

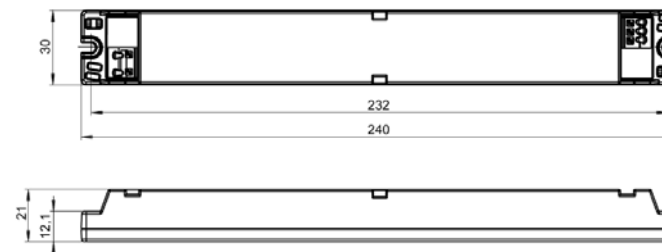
#### Low Voltage

- EN61347-1
- EN61347-2-13

#### EMC

- EN55015
- EN61547
- EN61000-3-2
- EN62384

## Engineering Drawing



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# LED Driver: LT60 SQ



## Features

- High Quality: LED Drivers Made in Germany
- Current & Voltage Regulation within one Device
- Optional Connection with DIMMBox – LEDs dimmable with DALI, SwitchDIM and 1-10 V
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- 220-240 V Input: Optimized for 230 V Applications
- Minimal Output Tolerances via Laser Trimming
- Customer-specific Outputs on Demand
- High Efficiency: Typ. 91%
- Low Standby Losses  $\leq 1W$
- Environmentally friendly with an active PFC
- Safe Operation:
  - Over Temperature Protection
  - Continuously Short Circuit Proof
  - Overload Protection
  - No-Load Protection
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Energy Conservation



### Safety



IP20

### Compliance

#### Low Voltage

- EN61347-1
- EN61347-2-13

#### EMC

- EN55015
- EN61547
- EN61000-3-2
- EN62384

## Markets & Applications

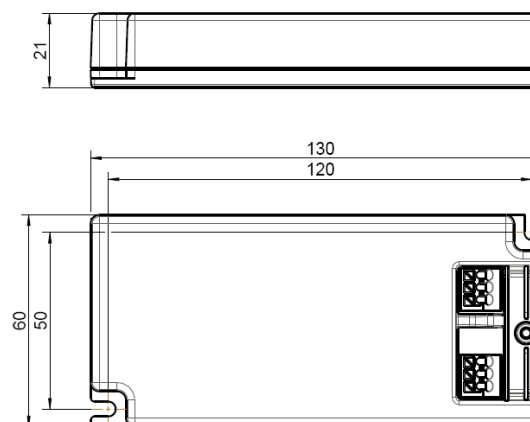


## Technical Data

### Output Data

Model	Voltage	Current	Article No.
LT60SQ-36	20-36 VDC	1100-1600 mA	1895373

## Engineering Drawing



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# LED Driver: LT60 DPA



## Markets & Applications



## Technical Data

Model	Output Data		Article No.
	Voltage	Current	
LT60-42	18-42 VDC	1400 mA	1895499

## Features

- High Quality: LED Driver Made in Germany
- Current & Voltage Regulation within one Device
- The maximum LED Current can be chosen by PRE-DIM DIP Switch in 16 Steps from 350 to 1400mA, additionally 1700mA at 36V
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- 220-240 V Input: Optimized for 230 V Applications
- Minimal Output Tolerances via Laser Trimming
- Customer-specific Outputs on Demand
- High Efficiency: 86% at nominal Load
- Low Standby Losses  $\leq 0,4W$
- Environmentally friendly with an active PFC
- Safe Operation:
  - Over Temperature Protection
  - Continuously Short Circuit Proof
  - Overload Protection
  - No-Load Protection
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Energy Conservation



### Safety



IP20

### Compliance

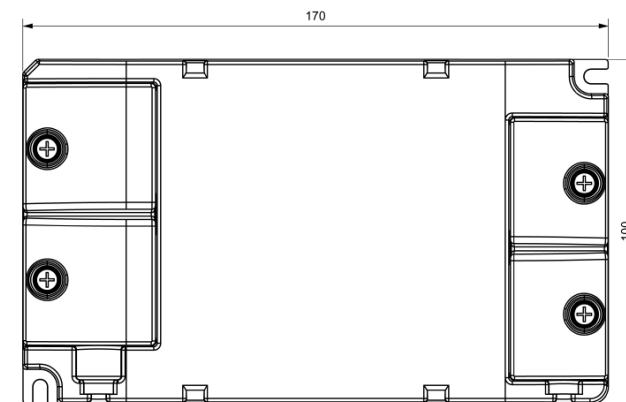
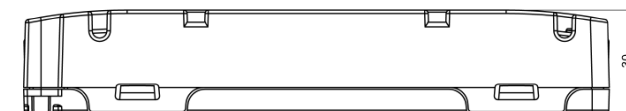
#### Low Voltage

- EN61347-1
- EN61347-2-13
- EN62384

#### EMC

- EN55015
- EN61547
- EN61000-3-2

## Engineering Drawing



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# LED Driver: LT100



## Features

- High Quality: LED Drivers Made in Germany
- Current & Voltage Regulation within one Device
- Optional Connection with DIMMBox – LEDs dimmable with DALI, SwitchDIM and 1-10 V
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- Applicable in smallest Profiles thanks to very compact Design (only 24x30 mm in Cross Section)
- Excellent Ability for Furniture Applications thanks to optionally available Protective Caps
- 220-240 V Input: Optimized for 230 V Applications
- Minimal Output Tolerances via Laser Trimming
- Customer-specific Outputs on Demand
- High Efficiency: Typ. 91%
- Low Standby Losses  $\leq 1W$
- Environmentally friendly with an active PFC
- Safe Operation:
  - Over Temperature Protection
  - Continuously Short Circuit Proof
  - Overload Protection
  - No-Load Protection
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Energy Conservation



### Safety



### Compliance

#### Low Voltage

- EN61347-1
- EN61347-2-13

#### EMC

- EN55015
- EN61547
- EN61000-3-2
- EN62384

## Markets & Applications

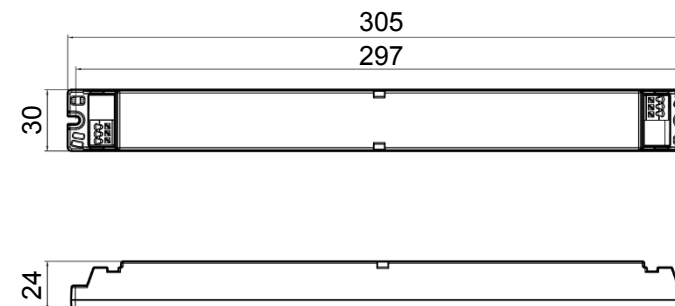


## Technical Data

### Output Data

Model	Voltage	Current	Article No.
LT100-24	15-23,5 VDC	4160 mA	1894680

## Engineering Drawing



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# DIMMbox



## Markets & Applications



## Technical Data

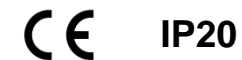
- Input: 15 - 48 VDC / 0 - 5 A
- Output: 15 - 48 VDC / 0 - 5 A  
PWM 600 Hz modulated
- DALI: According to DALI-Protocol
- SwitchDim: 230 VAC
- Analog: 1 - 10 V
- Article Number: 1894848

## Features

- High Quality Product „Made in Germany“
- Suitable for connection to all FRIWO LT drivers with CTRL input
- Output dimmable with:
  - DALI
  - SwitchDim
  - 1 - 10 V
- Easy Installation: Fastening by Screws, Rivets, Cable Straps or Clips
- Variably adjustable Strain Relief by Cable Strap: Suitable for different Lead Diameters
- Applicable in smallest Profiles thanks to very compact Design (only 21x30 mm in Cross Section)
- Excellent Ability for Furniture Applications thanks to optionally available Protective Caps
- Ready-to-Install Devices: Zero Failure Deliveries thanks to 100% Functional & 3,75 kV High Voltage Tests

## Approvals

### Safety



### Environmental



### Compliance

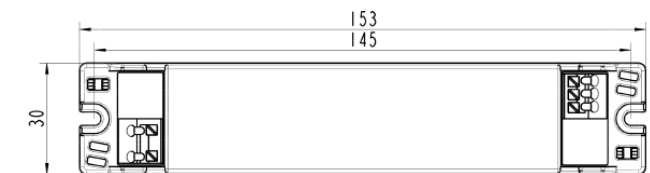
#### Low Voltage

- EN61347-1
- EN61347-2-11

#### EMC

- EN55015
- EN55022
- EN61547

## Engineering Drawing



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