

## ET-Economy Transformer

Electronic transformers for low-voltage LED lamps

### Product Description

High-frequency, unique compact size and long lifetime electronic transformer, operation with 12V LED lamps

### Product Features and Benefits

- Dedicated LED transformer
- Long lifetime, 30,000 hours
- Safe operation, SELV compliant, CB
- Overheating protection
- Quick ignition time, <0.8s
- Lead wire

### Applications

- Hotels, Living rooms, Washroom, Corridors, Stairway, Lobby, Reception areas and Exhibition rooms
- Shop decorative, Restaurants and accent lighting

### Quality

We ensure optimum quality regarding:

- System supplier  
As manufactures of lamps and gear, Philips ensures that, from the earliest development stage, optimum lamp/gear performance is designed
- International supplier  
Philips Electronic transformer fully comply with SELV standards, IEC 61347-1, IEC 61347-2-13

Compliances and approvals

- Safety
  - Vibration & bump tests
  - Approval marks
  - Quality standard
  - Environmental standard
- IEC61347-1, IEC61347-2-13

IEC 60068-2-6 Fc

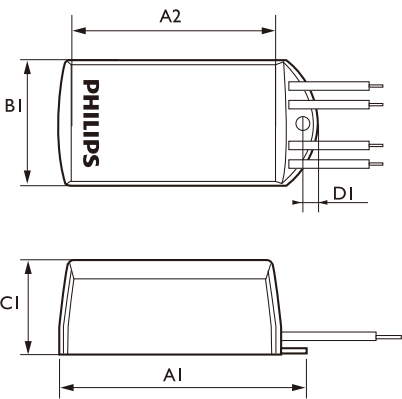
IEC 60068-2-29 Eb

SELV , CB

ISO9001

ISO14001

RoHS compliance



Dimensions in mm (nom)

Type	A1	A2	B1	C1	D1
ET-E 10 LED	76.0	64.0	38.0	24.5	4.0

Lamp & Gear matching table:

Transformer	12V LED Lamp	
	Lamp type	Qty
ET-E 10 LED	MASTER LED 6.5W MR16	X 1 PCS
ET-E 10 LED	MASTER LED 5.5W MR16	X 1 PCS
ET-E 10 LED	MASTER LED 4W MR16	X 1 PCS
ET-E 10 LED	Essential LED 2.6W MR16	X 1 PCS

Technical data

Type	For lamps	Voltage	Frequency	System Power	Power loss	PF	T <sub>case</sub> life	T <sub>ambient</sub>
		(Volt)						
ET-E 10 LED	MASTER LED 6.5W MR16	220-240	50/60	6.9	< 0.85	0.95	65	-20... 50
ET-E 10 LED	MASTER LED 5.5W MR16	220-240	50/60	6.1	< 0.80	0.95	65	-20... 50
ET-E 10 LED	MASTER LED 4W MR16	220-240	50/60	4.8	< 0.75	0.90	65	-20... 50
ET-E 10 LED	Essential LED 2.6W MR16	220-240	50/60	2.9	< 0.60	0.55	65	-20... 50

## Inrush current

Type	Max quantity of ballasts Per MCB Type B 16A	Inrush current $\frac{1}{2}$ Value time at typical mains Impedance
ET-E 10 LED	90	15A/100us

## Conversion table for max. quantities of ballasts on other types of Miniature Circuit Breaker

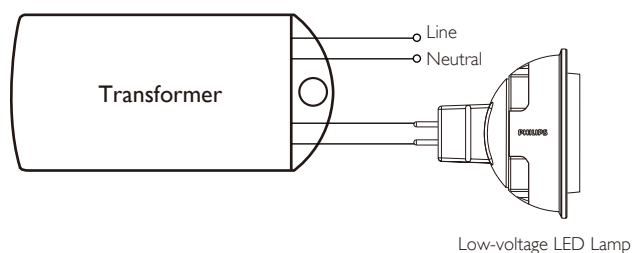
MCB type	Rating	Relative number of ballasts
B	16 A	100% (see table above)
B	10 A	63%
C	16 A	170%
C	10 A	104%
L, I	16 A	108%
L, I	10 A	65%
G, U, II	16 A	212%
G, U, II	10 A	127%
K, III	16 A	254%
K, III	10 A	154%

## Technical data for installation

### Mains operation

Rated mains voltage	220-240V
With tolerance for performance	202-254V
Lifetime	30,000 hours
Over voltage	Up to 290V (2 hours)
Tamb	-20°C ~ +50°C
Max Tcase	65°C
The maximum distance between transformer and lamps of	1.5 meter
Overheating protection	Yes

### Diagram



### Incorrect wiring remark:

- Short circuit of output connections is NOT allowed.
- Connect lamp terminals with mains voltage is not allowed.

## Ordering and packing data:

Transformer	GPC	Language	Single unit		Carton		Pallet	
			gross	Dimensions	Carton packing	Dimensions	Cartons-per pallet	Qty-per pallet
			kg	Bulk packing mm	Qty pcs	L x W x H cm	pcs	pcs
ET-E 10 LED	913710032179	Chinese	0.05	80.0 x 38.5 x 31.5	48	35.0 x 25.0 x 7.6	120	5760
ET-E 10 LED	913710032160	English	0.05	80.0 x 38.5 x 31.5	48	35.0 x 25.0 x 7.6	120	5760



© 2012 Philips Lighting

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent or other industrial or intellectual property rights.

11/2012  
[www.philips.com](http://www.philips.com)