



CertaDrive 35W 24VDC 220/240V

The constant voltage driver for LED applications

High frequency, compact size and long lifetime. The constant voltage LED drivers, operation with 24VDC LED module, LED strip and other LED application where need 24VDC constant voltage.

Product features and benefits

- Optimal performance thanks to the dedicated LED solution
- Long lifetime
- Safe operation, SELV compliant, CB
- Complete protection, overload, short circuit, overheat protection
- Installation friendly, for Class I and Class II systems
- CQC, CE, CB certificate

Applications

- Hotel, partially light the space, living rooms, corridors
- Retail & shopping mall, cabinet or shelf lighting
- Restaurant, enhance the ambience, create the mood
- Decoration, create space and layers, light sculpture

Quality

We ensure optimum quality regarding:

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

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220 ... 240	Vac	Performance
Rated input voltage range	198 ... 264	Vac	Operational
Rated input frequency	50 ... 60	Hz	Performance
Rated input frequency	45 ... 66	Hz	Operational
Rated input current	0.17	A	230Vac, full load
Rated input power	42	W	230Vac, full load
Power factor	≥0.95		230Vac, full load
Power factor	≥0.90		230Vac, 50% load
Total harmonic distortion	≤20	%	230Vac, full load
Efficiency	≥86	%	230Vac, full load

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Voltage		Rated output voltage: 24VDC
Output voltage range	23.0 ... 25.3	VDC	
Output current range	0.25 ... 1.5	ADC	
Output short-circuit current	<7 / 1.8	Ap / Arms	Hiccup mode
Output voltage ripple	<3500	mVp-p	
Output power range	6 ... 33	W	
Line regulation	<3	%	
Load regulation	<5	%	
Turn-on delay	<1.2	s	
Output voltage rise time	<50	ms	
Hold-up time	<10	ms	

Logistical data

Specification item	Value
Product name	CertaDrive 35W 24V 220V/240V
European Order Code	871869679691700
Logistic code 12NC	9290 014 24006
Pieces per box	20pcs

Wiring & Connections

Specification item	Value	Unit	Condition
Input wire cross-section	0.75	mm ²	Solid wire, 300 +/- 10mm length
Input cable diameter	0.82	mm	
	18	AWG	
Input wire strip length	9	mm	
Output wire cross-section	0.75	mm ²	Solid wire, 300 +/- 10mm length
Output cable diameter	0.82	mm	
	18	AWG	
Output wire strip length	9	mm	
Maximum output cable length	1.0	m	CISPR15: between driver and LED module/strip

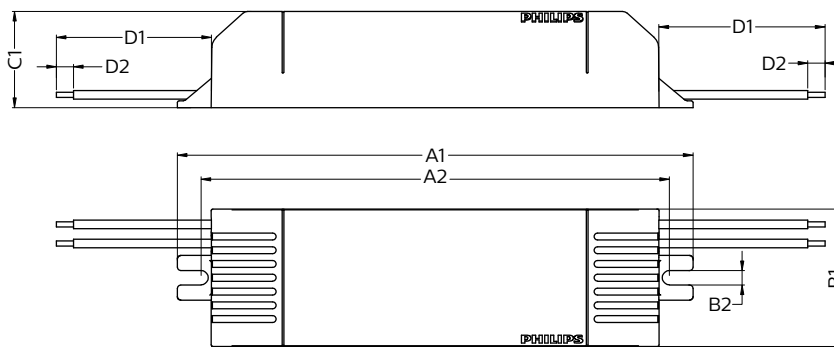


Insulation

Insulation	Mains	LED
Mains	N/A	SELV (double)
LED	SELV (double)	N/A

Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	150	mm	
Width (B1)	40	mm	
Height (C1)	28	mm	
Fixing hole distance (A2)	136	mm	
Fixing hole diameter (B2)	4.2	mm	
Weight	185	gram	



	A1	A2	B1	B2	C1	D1	D2
30W	150	136	40	4.2	28	300±10	9±1

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Driver ambient temperature	-20 ... +50	°C	At rated output power. Higher ambient temperature allowed as long as Tcase-max is not exceeded.
Tcase-min	-20	°C	
Tcase-max	90	°C	Max. steady-state Tcase
Tcase-life	80	°C	For rated driver lifetime
Maximum housing temperature	110	°C	In case of failure
Relative humidity	10 ... 90	%	Non-condensing
Ingress Protection *	IP40		
Noise and hum	≤ 20	dB	

*: The CertaDrive 35W/24VDC driver is intended for built-in indoor use only.
The driver should not be directly exposed to the elements like snow, water and ice.

Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-40...+85	°C	
Relative humidity	10..95	%	Non-condensing

Lifetime

Specification item	Value	Unit	Condition
Rated driver lifetime	40,000	hours	Driver Tc ≤ 85°C Maximum failures = 10%

Features

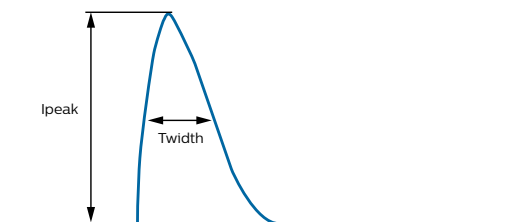
Specification item	Value	Remark	Condition
Open load protection	Yes		Automatic recovering
Short-circuit protection	Yes		Automatic recovering
Overheat protection	Yes		Automatic recovering
Overload protection	Yes		Automatic recovering
Hot wiring	Yes		
Suitable for insulation class applications	I / II		Per IEC60598

Certificates and standards

Specification item	Value
Approval marks	CE / CCC / SELV / RoHS / EAC / UA / Double insulated /

Inrush current

Specification item	Value	Unit	Condition
Inrush current Ipeak	8	A	Input voltage 230Vac
Inrush current Twidth	120	µs	Input voltage 230Vac, measured at 50% Ipeak
Typical number of drivers	Max. 28	pcs	MCB 16A B type, mains impedance 200mΩ + 400µH



MCB	Rating	Relative number of LED drivers *
B	6A	37%
B	10A	63%
B	13A	81%
B	16A	100%
B	20A	125%
B	25A	156%
C	6A	63%
C	10A	104%
C	13A	135%
C	16A	170%
C	20A	208%
C	25A	260%
D	6A	125%
D	10A	104%
D	13A	135%
D	16A	170%
D	20A	208%

*: Please check that cable cross sectional area corresponds with MCB rating

Driver touch current

Specification item	Value	Unit	Condition
Typical touch current	<0.7	mA peak	Acc. IEC61347-1 at 230Vac 50/60Hz LED module contribution not included

Surge immunity

Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1.0 / 0.5	kV / kA	L-N, acc. IEC61000-4-5. 2 Ohm, 1,2/50µs, 8/20µs
Mains surge immunity (comm. mode)	2.0	kV	L/N – GND acc. IEC61000-4-5. 12 Ohm, 1,2/50µs, 8/20µs



©2019 Signify Holding. All rights reserved.

UK importer address: Signify Commercial UK Limited, 3, Guildford Business Park, GU2 8XG.

The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.

Date of release: December 9, 2019
www.philips.com/oem

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [LED Power Supplies](#) category:

Click to view products by [Philips](#) manufacturer:

Other Similar products are found below :

[PIFC-K250F](#) [PITB-K222A](#) [AC-A60VD24H2.5](#) [ALD-514012PJ134](#) [PWD-60-1-70-P](#) [EUG-200S210DT](#) [ESS030W-1050-21](#) [BPOXL 4-12-035](#) [ESS010W-0180-42](#) [ESS010W-0350-24](#) [ESS010W-0200-42](#) [SLM140W-1.05-130-ZA](#) [ESS015W-0700-18](#) [HVG-240-48AB](#) [HVG-240-54AB](#) [OTE 25/220-240/700 PC](#) [DAL30W-0600-42-T](#) [HVG-320-48AB](#) [CNB30W-0600-42-CAS](#) [87500757](#) [I-SELECT 2 PLUG 2100MA BL](#) [LCU 48V 75W DC-STR FO](#) [LC 45 W 500-1400 MA FLEXC SC EXC](#) [I-SELECT 2 PLUG 2000MA BL](#) [LC 50/200-350/170 FLEXCC LP](#) [SNC3](#) [LCO 14/100-500/38 O4A NF C EXC3](#) [LC 28W 300-700MA 42 FLEXC NF SC EXC3](#) [LC 44/1050/42 FIXC SRL ADV2](#) [LCA 60W 900-1750MA ONE4ALL C PRE](#) [LC 8/180/44 FIXC SR SNC2](#) [LC 19/200-350/54 FLEXC LP SNC4](#) [BXDR-PS-75BS-E116D-01-A](#) [LC 30/500/54 FIXC SR SNC2](#) [LCA 60W 24V ONE4ALL SC PRE SP](#) [LC 60W 75-330MA 310V FLEXC NF H16 EXC4](#) [LC 8/180/42 FIXC PC SR SNC2](#) [LC 10/350/29 FIXC SR SNC2](#) [LC 25/500/43 FIXC SR SNC2](#) [LC 50/100-400/140 PO4A NF H16 PRE3](#) [LC 25/600/42 FIXC SRL ADV2](#) [LCO 24/200-1050/39 NF C ADV3](#) [ELEMENT 35/220...240/900 G3](#) [LC 25W 350-1050MA FLEXC SR EXC](#) [LC 60/700/86 FIXC SR SNC2](#) [LC 35W 24 ONE4ALL IP PRE](#) [BXDR-PS-25BS-E107D-01-A](#) [LC 17W 250-700MA FLEXC SR EXC](#) [LC 15W 350MA FIXC C SNC](#) [LC 14W 700MA FIXC PC SR SNC2](#) [LC 200W 24V SC SNC](#)