



Datasheet

CertaDrive G3

CertaDrive 15W 0.35A 42V I 230V

9290 033 92080

Affordable and reliable LED Drivers

Affordable LED Driver range offering Philips reliability. The CertaDrive range is compatible with COB and mid-power LEDs from any LED manufacturer.

Benefits

- Design based on Philips experience and knowledge of lighting
- Various power wattage drivers for different applications
- Independent housing design for stand-alone installations
- Affordable LED Drivers with premium brand

Features

- High reliability design proved by G1/G2
- Great EMI performance suitable for different luminaire
- Low ripple current less than 8%
- 30,000 hours lifetime

Application

- Public buildings (airports, cinemas, theaters, exhibition halls)
- Retail (supermarkets, shops)
- Office

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220240	V _{ac}	Performance range
Rated input voltage	230	V _{ac}	
Rated input frequency range	5060	Hz	Performance range
Rated input current	0.08	A	@ rated output power @ rated input voltage
Rated input power	18	W	@ rated output power @ rated input voltage
Power factor	0.9		@ rated output power @ rated input voltage
Total harmonic distortion	20	%	@ rated output power @ rated input voltage
Efficiency	85	%	@ rated output power @ rated input voltage @max. Uout
Input voltage AC range	202254	V _{ac}	Operational range
Input frequency AC range	47.563	Hz	Operational range
Isolation input to output	SELV		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	3042	V _{dc}	
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.35	A	
Output current tolerance ±	8	%	
Output current ripple LF	≤ 8	%	Ripple = peak / average, < 3kHz
Output current ripple HF	≤ 15	%	
Output P _{st} ^{LM}	≤ 0.07		In entire operating window
Output SVM	≤ 0.11		In entire operating window
Output power	1015	W	

Electrical data controls input

	I.	I.	
Specification item	Value	Unit	Condition
Control method	Fixed		

Wiring and Connections

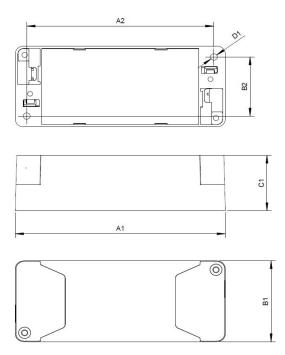
Specification item	Value	Unit	Туре
Input wire cross-section	0.751.5 / 1816	mm ² / AWG	solid / stranded wire
Input wire strip length	89	mm	
Output wire cross-section	0.751.5 / 1816	mm² / AWG	solid / stranded wire
Output wire strip length	89	mm	
Maximum cable length	0.3	m	Total length of wiring including LED module, one way



Insulation

Insulation per IEC61347-1	Input	Output
Input		SELV
Output	SELV	

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	101	mm	±0.3
Mounting hole distance (A2)	90	mm	±0.3
Width (B1)	41	mm	±0.3
Width (B2)	30	mm	±0.3
Height (C1)	28	mm	±0.2
Mounting hole diameter (D1)	3.3	mm	±0.1
Weight	65	gram	



Logistical data

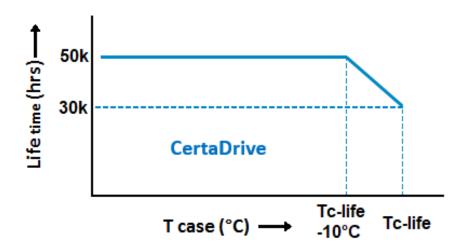
Specification item	Value
Product name	CertaDrive 15W 0.35A 42V I 230V
Logistic code 12NC	9290 033 92080
Pieces per box	64

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+50	°C	Higher ambient temperature allowed as long as Tcase-max is not
			exceeded
Tcase-max	75	°C	Maximum temperature measured at T _{case} -point
Tcase-life	65	°C	Measured at T _{case} -point
Maximum housing temperature	130	°C	In case of a failure, inherent by design
Relative humidity	1090	%	Non-condensing

Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	30,000	hours	Measured temperature at Tcase-point is Tcase-life. Maximum
			failures = 10%
	50,000	hours	Measured temperature at Tcase-point is Tcase-life -10°C.
	•		Maximum failures = 10%



Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25+85	°C	
Relative humidity	595	%	Non-condensing

Programmable features

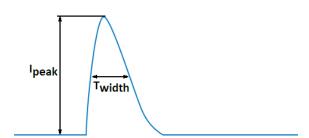
Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	No	350 mA	
LED Module Temperature Protection (MTP)	No		
Driver Temperature Limit (DTL)	No		
Constant Light Output (CLO)	No		
Corridor Mode	No		
DC emergency (DCemDim)	No		

Features

Specification item	Value	Condition
Open load protection	Yes	Automatic recovering
Short circuit protection	Yes	Automatic recovering
Over power protection	Yes	Automatic recovering
Hot wiring	No	
Suitable for fixtures with protection class	II	per IEC60598
Output Overvoltage Detection	No	
Energy metering (DALI part 252)	No	
Diagnostics	No	

Inrush current

Specification item	Value	Unit	Condition
Inrush current	9.91	A	Input voltage 230V
Inrush peak width	128	μs	Input voltage 230 V, measured at 50% height
Drivers / MCB 16A type B	≤ 98	pcs	Indicative value



Please refer to the driver design in guide if you use other MCB-types.

Driver touch current / protective conductor current

Specification item	Value	Unit	Condition
Typical Touch Current (ins. Class II)	0.7	mA peak	Acc. IEC61347-1. LED module contribution not included

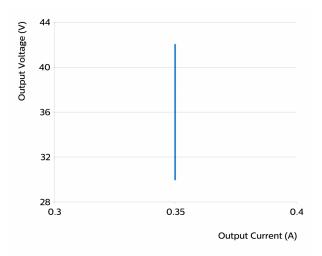
Surge immunity

Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

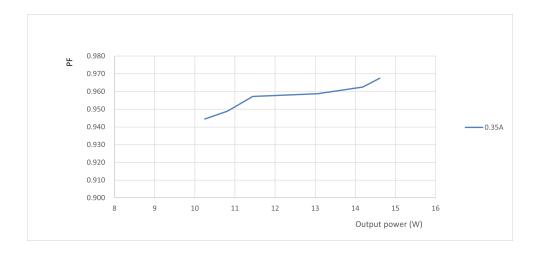
Application Info

Specification item	Value
Approval marks	CCC / CE / ENEC / RCM / SELV / TISI / UKCA
Ingress Protection classification (IP)	20
Application	Indoor Point
Mounting Type	Built-in / Independent

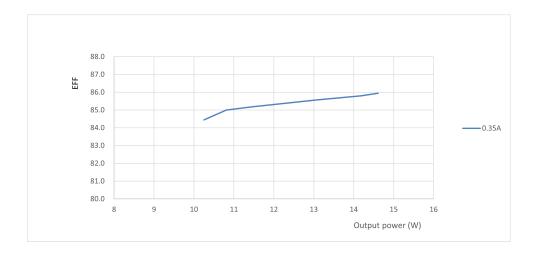
Operating window

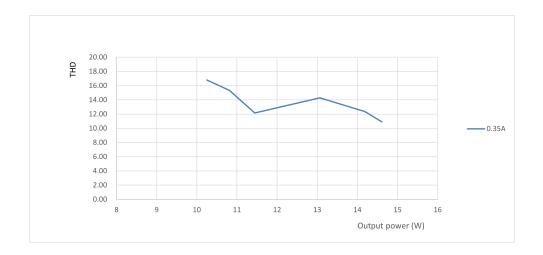


Power factor versus output power



Efficiency versus output power







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