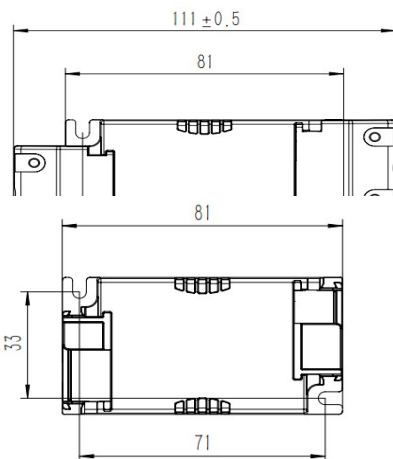
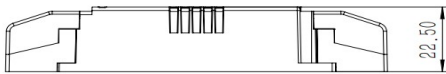
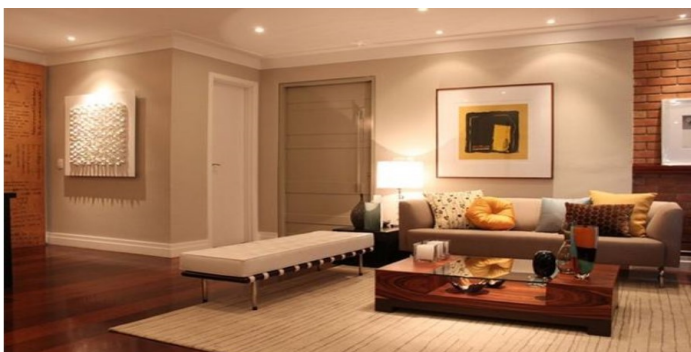


Remark: 111mm is the length with two covers in the left and right sides, while 81mm is the length without covers in the two sides.



Advantage

- Compact dimension, coincident with the miniaturization of luminaire
- Up to 82 % efficiency
- Compatible with 32 kinds of popular dimmers, listed on page 3
- Nominal Life-time up to 50,000 hours
- 5-year guarantee

Product Description

- Dimmable constant current LED Driver (SELV)
- Independent LED Driver
- Dimmable via leading edge and trailing edge phase dimmers
- Dimming range 5 to 100 % (depending on dimmer)
- For luminaires of protection class II
- Temperature protection as per EN 61347-2-13 C5e
- Output current 200, 250 and 350 mA
- Output power 8, 10 and 14 W
- Up to 82 % efficiency
- Nominal life-time up to 50,000 h
- 5-year guarantee

Features

- Casing: polycarbonat, white.
- Type of protection IP20

Functions

- Overload protection
- Short-circuit protection
- No-load protection
- Overtemperature protection
- Burst protection voltage 1 kV
- Surge protection voltage 1 kV (L to N)
- Surge protection voltage 2 kV (L/N to earth)

Typical applications

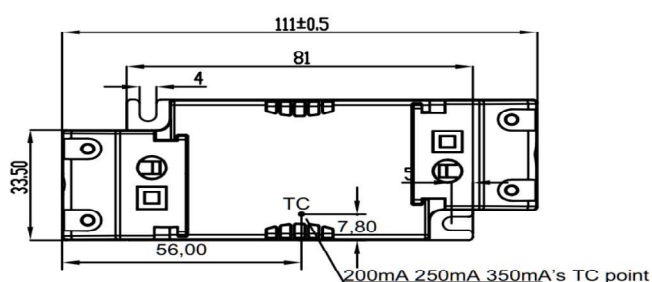
- For spot light and downlight in retail and hospitality application

Specific Technical Data

Type	Input Voltage	Output Power	Output Voltage	Output Current	Ripple	TC	Ta	Dimension
VLD8 200 40 FixC Ph-C BI Bas	230V	8W	30-40V	200mA	<20	80°C	-20...+50°C	111(81)x42.5x22.5mm
VLD10 250 40 FixC Ph-C BI Bas	230V	10W	30-40V	250mA	<20	80°C	-20...+50°C	111(81)x42.5x22.5mm
VLD14 350 40 FixC Ph-C BI Bas	230V	14W	30-40V	350mA	<20	80°C	-20...+50°C	111(81)x42.5x22.5mm

Remark: 111mm is the length with two covers in the left and right sides, while 81mm is the length without covers in the two sides.

TC position



Ordering data

Article number	Description	Dimension of product	Net Wt/pc	Package/ctn	Dimension of carton	Remark
1060800068	VLD8 200 40 FixC Ph-C BI Bas	111(81)x42.5x22.5mm	93g	160pcs	355x257x305mm	With cover
1060800069	VLD10 250 40 FixC Ph-C BI Bas	111(81)x42.5x22.5mm	93g	160pcs	355x257x305mm	With cover
1060800070	VLD14 350 40 FixC Ph-C BI Bas	111(81)x42.5x22.5mm	93g	160pcs	355x257x305mm	With cover
						W/O cover
						W/O cover
						W/O cover

Dimmer list for Phase-cut driver LED Drivers with different phase-cut dimmers

⚠ CAUTION!

The maximum number of LED Drivers per dimmer is defined by the power of the LED Driver and the dimmer:

— The total power of all connected LED Drivers must not exceed 50 % of the power of the dimmer.

Example:

— Power of dimmer: 600 W → 50 % power: 300 W

— Power of LED Driver: 15 W

— Maximum number of LED Drivers: $300 \text{ W} : 15 \text{ W} \leq 20$ devices

Values for dimmers

📌 NOTICE

More detailed information about dimmer values at different operating points (220Vac/50Hz, 230Vac/50Hz, 240Vac/50Hz) can be provided if needed.

Please contact your local supplier.

Product name	Article number	Dimmer type	Driver per dimmer	Linearity	Noise ² rating	Flicker ³ rating	Min dimming level	Other issues ⁴ / Summary
GIRA	0302 00/I01	leading	1-28	1	1	1	12 %	
GIRA	2262 00/I01	leading	1-9	1	1	1	13 %	
GIRA	1182 00/I01	leading	1-17	1	1	1	12 %	
GIRA	1184 00/I01	leading	1-19	1	1	1	15 %	
GIRA	117600/I01	trailing	1-16	1	1	1	17 %	
Busch	6523 U-102	universal	1-20	1	1	1	0 %	
Busch	2250 U	leading	1-28	1	1	1	8 %	
Berker	283010	leading	1-19	1	1	1	14 %	
JUNG	225 TDE	trailing	1-25	1	1	1	12 %	
JUNG	225NVDE	leading	1-9	1	1	1	0 %	
JUNG	266 GDE	leading	1-25	1	1	1	12 %	
JUNG	254 UDIE 1	universal	1-28	1	1	1	18 %	
Legrand	78401	universal	1-19	1	1	1	0 %	
Clipsal	32E450TM	trailing	1-21	1	1	1	12 %	
Clipsal	32E450UDM	universal	1-21	1	1	1	14 %	
Clipsal	32E450LM	leading	1-1	1	1	1	10 %	
SAL	SDA450	trailing	1-21	1	1	1	11 %	
SAL	SDD350	trailing	1-16	1	1	1	1 %	
Siemens	5TCB 257	leading	1-23	1	1	1	0 %	
ELKO	316GLED	trailing	1-15	1	1	1	12 %	
ELKO	315GLE-2Pole	trailing	1-15	1	1	1	7 %	
ELKO	315GLE	trailing	1-15	1	1	1	4 %	
E-LITE	U116	trailing	1-23	1	1	1	9 %	
Legrand	78405	universal	1-4	1	1	1	0 %	
Feller/Schneider	40300 RC	trailing	1-14	1	1	1	14 %	
Feller/Schneider	40600 RL	leading	1-1	1	1	1	7 %	
Hager	EVN011	universal	1-14	1	1	1	12 %	
Hager	EVN 012	universal	1-14	1	1	1	12 %	
Finder	15.91.8	leading	1-3	1	1	1	6 %	
Niko	325	universal	1-15	1	1	1	0 %	
Busch	2247U	leading	1-23	1	1	1	16 %	
Feller/Schneider	40200.LED.F.61	universal	1-19	1	1	1	14 %	

Explanation:

1. Dimmer types: leading, trailing, universal

2. Noise evaluation: 1 (very little noise) → 4 (strong noise).

Noise evaluation was only carried out for full load. Values for minimum load are less critical. For reference refer to full load.

3. Flicker evaluation: 1 (no flicker) → 4 (strong flicker)

4. Other issues: description of the issue.

ZSL-UP is an additional circuit that can improve the dimming behaviour of specific lamps.

EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
EN 62384
EN 61643-11

2.1 Wiring type and cross section

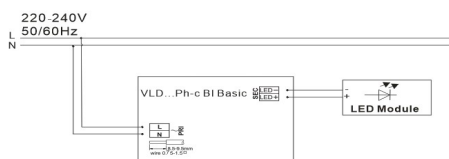
The wiring can be in stranded wires with ferrules or solid with a cross section of 0.2–0.5 mm². Strip 8.5–9.5 mm of insulation from the cables to ensure perfect operation of the push-wire terminals. Use one wire for each terminal connector only.

wire preparation:

0.2 – 0.5 mm²

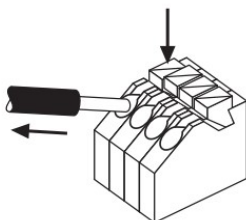
8.5 – 9.5 mm

2.2 Circuit diagram



2.3 Release of the wiring

Press down the "push button" and remove the cable from front.



2.4 Wiring guidelines

- All connections must be kept as short as possible to ensure good EMI behaviour.
- Max length of output wires is 20cm.
- Secondary switching is not permitted.
- Incorrect wiring can damage LED modules.
- To avoid the damage of the Driver, the wiring must be protected against short circuits to earth (sharp edged metal parts, metal cable clips, louver, etc..)

2.5 Replace LED module

1. Mains off
2. Remove LED Module
3. Wait for 20 or 30 seconds
4. Connect LED module again

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

2.6 Fixing conditions when using as independent Driver with Clip-On

Dry, acidfree, oilfree, fatfree.

It is not allowed to exceed the maximum ambient temperature (ta) stated on the device.

2.7 Installation instructions

The LED module and all contact points within the wiring must be sufficiently insulated against 3 kV surge voltage.

2.8 Mounting of device

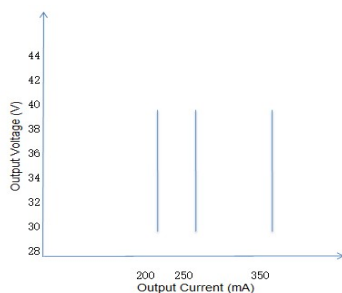
Max. torque for fixing: 0.5 Nm/M4

Technical data

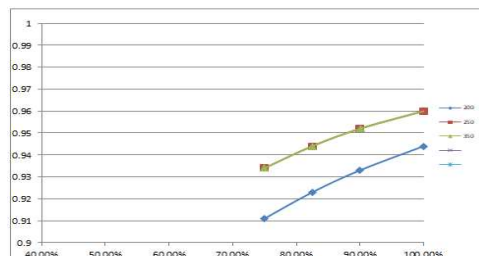
Technical data	Product type				
	200mA		250mA		350mA
Rated supply voltage = U-IN on label	220-240		220-240		220-240
Input voltage range, AC	198-264		198-264		198-264
Mains frequency	50/60Hz		50/60Hz		50/60Hz
Overvoltage protection(Input side)	320Vac,1h		320Vac,1h		320Vac,1h
Max input current (@220-240V,50/60Hz)= I-IN on label	0.04		0.05		0.075
Max input power (@220-240V,50/60Hz) = P-IN on label	9		11.5		16.5
Typ.power consumption(at 230V .full load)	8		10		14
Min output power (@220-240V,50/60Hz)	6		7.5		10.5
Max output power(@220-240V,50/60Hz) = P-OUT on label	8.6		10.75		15
Max. output voltage(V) (abnormal condition) = U-OUT from label	50		50		50
Max. input current (at 220V, 50Hz, full load, EOFx Dimlevel)	40		50		75
Output current tolerance(+/-%), (at 230 V, 50 Hz, full load)	±7.5		±7.5		±7.5
Output current tolerance(+/-%), (at 230 V, 50 Hz, min load)	±7.5		±7.5		±7.5
Typ. current ripple (at 230 V, 50 Hz, full load)	10		10		10
Typ. current ripple (at 230 V, 50 Hz, min load)	10		10		10
Output LF Current Ripple (<120Hz)	≤20		≤20		≤20
Max. output peak current (at 230 V, 50 Hz, full load)	258		322.5		451.5
Max. output peak current (at 230 V, 50 Hz, Min. load)	258		322.5		464
Leakage current (230Vac/50Hz Input, Output full load)	20		20		20
THD(at 230V,50Hz, full load)	<25		<25		<25
THD(at 230V,50Hz, min load)	<25		<25		<25
Power factor(at 230V,50Hz, full load)	0.95		0.95		0.95
Power factor(at 230V,50Hz, min. load)	0.9		0.9		0.9
Efficiency(at 230V,50Hz, full load)	82		85		85
Efficiency (at 230V,50Hz, min. load)	80		80		80
Starting time (at 230V,50Hz,full load)	<0.5		<0.5		<0.5
Turn off time (at 230V,50Hz,full load)	<0.7		<0.7		<0.7
Hold-up time at power failure (output)	0		0		0
Ambient temperaure ta(°C)	-20...50°C		-20...50°C		-20...50°C
Ambient temperaure ta(at lifetime max)	50°C		50°C		50°C
Max. casing temperature tc	80°C		80°C		80°C
Storage temperature ts	80°C		80°C		80°C

3. Electrical values

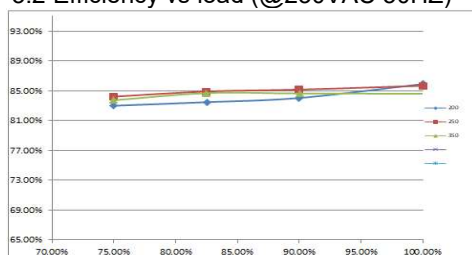
3.1 Operating window



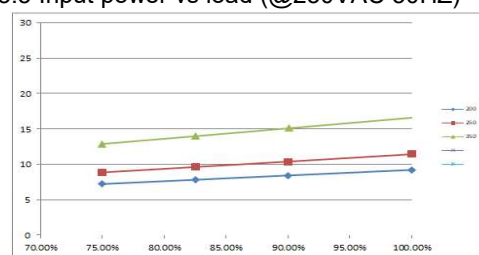
3.4 Power factor vs load (@230VAC 50HZ)



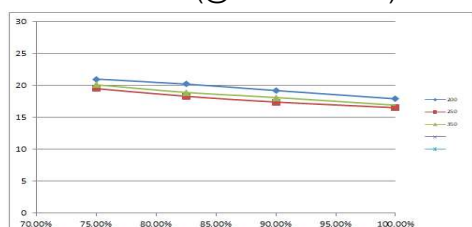
3.2 Efficiency vs load (@230VAC 50HZ)



3.5 Input power vs load (@230VAC 50HZ)



3.3 THD vs load (@230VAC 50HZ)



3.6 Input current vs load (@230VAC 50HZ)

