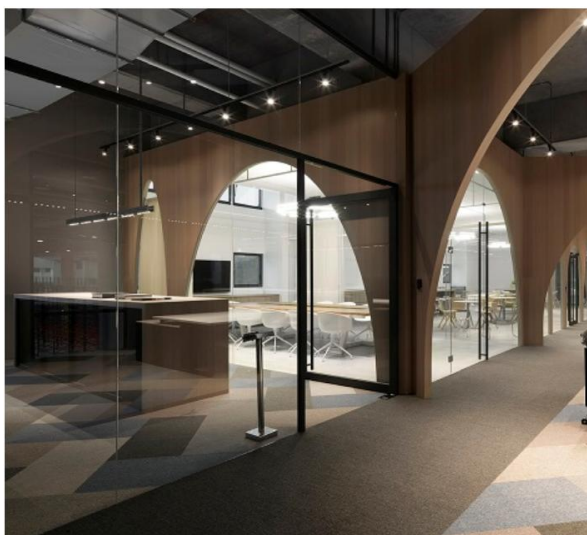




Advantage

- Nominal Life-time up to 50,000 hours
- 5-year guarantee

Product Description

- Temperature protection as per EN61347
- Wireless controllable with an Android / iOS smart device
- Forms automatically a wireless communication network with up to 64 nodes
- No need for an external gateway device

Features

- Casing: plastic
- Type of protection IP20

Functions

- Overload protection
- Short-circuit protection
- No-load protection
- Burst protection voltage 1 kV
- Surge protection voltage 1 kV (L to N)
- Dimmable

Typical applications

- For downlight, spotlight, pannel light.

Technical data

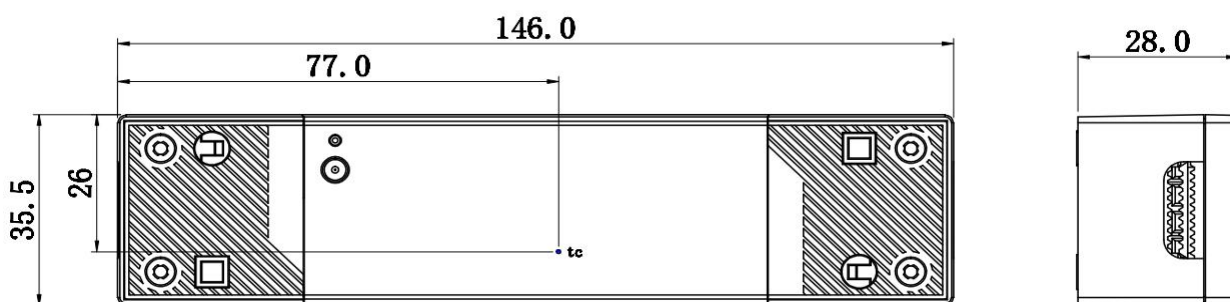
	Product type	
Input power	3.2W	Unit
Module	Casambi	
Case size(LxWxH)	146*35.5*28	mm
Rated supply voltage = U-IN on label	220-240	V
Input voltage range, AC	198-264	V
Mains frequency	50/60	Hz
Efficiency (220V/50Hz/full load)	73	%
Power Fator(220V/50Hz/full load)	>0.5C	
Standby power consumption(220Vac,25°C)	<0.5	W
No-load power consumption(220Vac,25°C)	<0.5	W
THD (220V/50Hz/full load)	N/A	%
Starting time(220Vac, full load, 25°C)	< 500	ms
Earth connection / luminaire electrical class (I / II / III)	class II	
Burst immunity	1	(kV)
Surge immunity (L-N)	1	(kV)
Surge immunity (L/N-PE)	N/A	(kV)
Max. DALI bus current	200	mA
Number of DALI address/group	8	
Dimming range	1-100	%
Dimming tolerance	±0.1	%
voltage accuracy	±7.5	%
Ripple (220V,full load)	±5	%
Output voltage	16	V
Max output power	3.2	W
Max output voltage (no load)	17.2	V
Short circuit protection	Yes	
Overload protection	Yes	
No-load protection	Yes	
Ambient temperaure ta(°C)	- 20 ... + 40	°C
Ambient temperaure ta(50000 Hrs)	40	°C
Max. casing temperature tc	50	°C
Storage Temperature	-20...+ 80	°C

Specific Technical Data

Type	Input Voltage	Output Power	Output Voltage	Output Current	THD	TC	Ta	Dimension
VBV-DS-IDP-W	220-240Vac	Max. 3.2W	16Vdc	200mA	N/A	50°C	- 20 ...+ 40°C	146*35.5*28mm

TC position

unit: mm



Ordering data

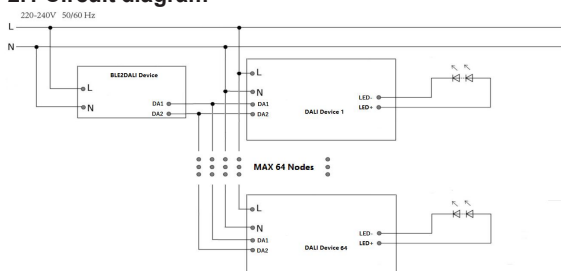
Article number	Description	Dimension of product	Net Wt/pc	Package/ctn	Dimension of carton
1060800348	Independent 220V CASAMBI BLE-DALI (VBV-DS-IDP-W)	146*35.5*28mm	83g	100pcs	330x310x410mm

1. Standards

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

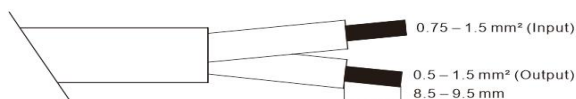
2. Installation and wiring

2.1 Circuit diagram



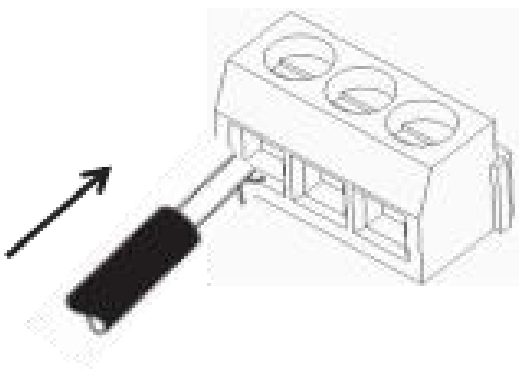
2.2 Wiring type and cross section

The wiring can be in stranded wires with ferrules or solid with a cross section of 0.75–1.5 mm² (mains wires) and 0.5–1.5 mm² (secondary wires, LED modul). Strip 8.5–9.5 mm of insulation from the cables to ensure perfect operation of the push-wire terminals.



2.3 Release of the wiring

Rotary release the "Screws" 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 80cm.
- Secondary switching is not permitted.
- Incorrect wiring can damage DALI 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 DALI Device

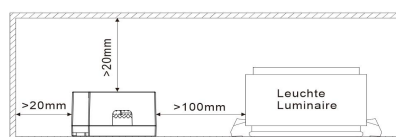
1. Mains off
2. Remove DALI device
3. Wait for 10 seconds
4. Connect DALI device again

2.6 Installation instructions

The DALI device and all contact points within the wiring must be sufficiently insulated against 1 kV surge voltage.
Air and creepage distance must be maintained.

2.7 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. Minimum distances stated below are recommendations and depend on the actual luminaire.
Is not suitable for fixing in corner.



2.8 Mounting of device

Max. torque for fixing: 0.5 Nm/M4

3. Thermal details and life-time

Expected life-time

Typ	ta	40°C	45°C	50°C
	tc	50°C	55°C	60°C
VBU-DS-IDP-W	Life-time	50000h	50000h	50000h

The The DALI devices and all contact points within the wiring must be sufficiently insulated against 1 kV surge voltage.

Air and creepage distance must be maintained, are designed for a life-time stated above under reference conditions and with a failure probability of less than 10 %.
Life-time declarations are informative and represent no warranty claim.



Vlinca Beleuchtungstechnologie GmbH
 Ebenseestr. 15 90482 Nuremberg, Germany
 Manufacture: Foshan Haydn Technology Lighting CO., LTD.
 Address: The 2nd Floor, 1st Building, No.8, Xingye 6th Road,
 Guanglong Industry Zone, Yongxing Community Residents
 Committee, Chencun Town, Shunde District, 528313 Foshan
 City, Guangdong Province, PEOPLES REPUBLIC OF
 CHINA

VBU-DS-IDP-W

RoHS
IP20
SELV
□
CE
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4. Maximum loading of automatic circuit breakers in relation to inrush current

Maximum loading of automatic circuit breakers

Automatic circuit									Inrush current	
	C10	C13	C16	C20	B10	B13	B16	B20	I _{max}	Time
Installation Ø	1.5mm ²	1.5mm ²	1.5mm ²	1.5mm ²	2.5mm ²	1.5mm ²	1.5mm ²	2.5mm ²		
VBU-DS-IDP-W	34	44	55	68	20	26	33	41	17.4A	201µs

This are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker. Calculation uses typical values from ABB series S200 as a reference.

Actual values may differ due to used circuit breaker types and installation environment.

4.1 Harmonic distortion in the mains supply (at 230 V / 50 Hz and full load) in %

	THD	3	5	7	9	11
VBU-DS-IDP-W	N/A	N/A	N/A	N/A	N/A	N/A

Acc. to EN61000-3-2. Harmonics < 5 mA or < 0.6 % (whatever is greater) of the input current are not considered for calculation of THD.