OSRAM

CV Power supplies 24 V with Bluetooth

Areas of application

- Suitable for indoor installations
- Shops and hospitality: retail, hotels, restaurants
- Museums, residential buildings

Product family benefits

- Power supply and control of white, Tunable White, Tunable Warm White, Dim to Warm
- Power supply and control of RGB and RGBW LED modules
- Driver with integrated CASAMBI lighting control system
- Slim form factor for installation in light boxes

Product family features

- 80 W/24 V LED driver, 1–4 channels
- Power metering on the app interface
- Lighting wireless Bluetooth Mesh network, up to 127 devices
- Different light profiles to customize the application
- 2 KHz PWM control unit

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ
OTI BLE 80/220...240/24 1...4 CH	220...240 V	50/60 Hz	198...264 V	< 5 %	0.98

Product description	Efficiency in full-load	Device power loss	Networked standby power	Inrush current
OTI BLE 80/220...240/24 1...4 CH	93 % [1]	-	<0.50 W [1]	48 A

Product description	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 16 A (C)	Max. ECG no. on circuit breaker 25 A (B)
OTI BLE 80/220...240/24 1...4 CH	7	7	11	11	17

Product description	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output power
OTI BLE 80/220...240/24 1...4 CH	-	1 kV	24 V	24.2 V	80 W

Product description	Maximum output power	Galvanic isolation	Galvanic isolation primary/secondary
OTI BLE 80/220...240/24 1...4 CH	80 W [2]	SELV	3.75 kV

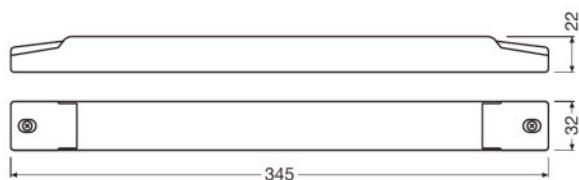| Product description	Output ripple Voltage (100 Hz)	Output PWM frequency	Input voltage DC
OTI BLE 80/220...240/24 1...4 CH	< 5 %	2k Hz	176...276 V

[1] at 230 V, 50 Hz

[2] at steady state

Dimensions & weight

Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OTI BLE 80/220...240/24 1...4 CH	303 mm	191.00 g	0.5...2.5 mm²	0.2...1.5 mm²	6.0 mm

Product description	Wire preparation length, output side	Mounting hole spacing, width	Length	Width	Height
OTI BLE 80/220...240/24 1...4 CH	5.0 mm	0 mm	346.0 mm	32.0 mm	22.0 mm

Product line drawing

OTI BLE 80/220...240/24 1...4 CH

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Colors & materials

Product description	Casing material
OTI BLE 80/220...240/24 1...4 CH	Plastic

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OTI BLE 80/220...240/24 1...4 CH	-20...+45 °C	80 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation			
OTI BLE 80/220...240/24 1...4 CH	5...85 % [1]			

[1] Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OTI BLE 80/220...240/24 1...4 CH	50000 h

Product family datasheet

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Dimming method
OTI BLE 80/220...240/24 1...4 CH	Yes	Bluetooth CASAMBI	0.4...100 %	Pulse Width Modulation

Product description	Overheating protection	Overload protection	Short-circuit protection	No-load proof
OTI BLE 80/220...240/24 1...4 CH	Reversible	Reversible	Reversible	Yes

Product description	Intended for no-load operation	Suitable for fixtures with prot. class	Type of connection, output side
OTI BLE 80/220...240/24 1...4 CH	No	I / II	Screw terminal

Product description	Number of channels
OTI BLE 80/220...240/24 1...4 CH	4

Certificates & standards

Product description	Approval marks – approval	Standards	Protection class	Type of protection
OTI BLE 80/220...240/24 1...4 CH	VDE / RCM / EAC	CE/ENEC	II	IP20

Logistical data

Product description	Commodity code
OTI BLE 80/220...240/24 1...4 CH	850440829000

Environmental information

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OTI BLE 80/220...240/24 1...4 CH	18-11-2021	4062172046558	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OTI BLE 80/220...240/24 1...4 CH	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	0609644c-7b61-4093-9d59-1d4587a8d4ee

Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Product family datasheet

Download Data

	File
	User instruction OPTOTRONIC LED Power Supply
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Technical datasheet OTI BLE 80220-24024 1-4CH (EN)
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	Certificates OT ENEC 40050684 060421
	Certificates OTi BLE 80 220 240 24 1 4CH NSW 28218 270120
	Certificates OTi BLE 80 CB DE1 63484 280420
	Declarations of conformity OTi BLE 80 24 9C1 3793600 (EN)
	CAD data 3-dim OTI BLE 80 3D STEP file
	CAD data 3-dim OTI BLE 80 220-240 24 1-4 CH - 3D stp file

Ecodesign regulation information:

Intended for use with LED modules.
The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172046558	OTI BLE 80/220...240/24 1...4 CH	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm³	3998.00 g

Logistical Data

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Accessories Optional

Product description	Accessory name	Accessory code
OTI BLE 80/220...240/24 1...4 CH	EASYFIT EWSDB by EnOcean	▶ 4062172082044
OTI BLE 80/220...240/24 1...4 CH	EASYFIT EWSSB by EnOcean	▶ 4062172082068

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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