

OPTOTRONIC Intelligent – Qualified Bluetooth Mesh NFC S

紧凑型LED恒流驱动电源-调光



应用领域

- 适用于可灵活设置电流的灯具
- 适用于室内 SELV 设施
- 适用于保护等级 I 和 II 的灯具

产品优势

- Versatile QBM window driver due to flexible output characteristic
- Locking and unlocking of programmable features



产品系列数据表

技术参数

电参数

产品描述	标称电压	市电频率	交流输入电压	直流输入电压	Total harmonic distortion	功率因数 λ
OTi QBM 20/220...240/500 NFC S	220...240 V	0,50,60 Hz	198...264 V ¹⁾	176...276 V	< 10 % ²⁾	≥ 095
OTi QBM 30/220...240/700 NFC S	220...240 V	0,50,60 Hz	198...264 V ¹⁾	176...276 V	< 10 % ²⁾	≥ 095
OTi QBM 40/220...240/1A0 NFC S	220...240 V	0,50,60 Hz	198...264 V ¹⁾	176...276 V	< 10 % ²⁾	≥ 095

产品描述	Efficiency in full-load	浪涌电流	使用10A过载保护器时最大 ECG连接数	16 A 断路器上的 ECG 最大数量
OTi QBM 20/220...240/500 NFC S	88 % ³⁾	< 20 安培 ⁴⁾	20	30
OTi QBM 30/220...240/700 NFC S	90 % ³⁾	< 20 安培 ⁴⁾	20	30
OTi QBM 40/220...240/1A0 NFC S	91 % ³⁾	< 20 安培 ⁴⁾	20	30

产品描述	浪涌承受能力 (L/N-Ground)	浪涌承受能力 (L-N)	标称输出电压	U-OUT (工作电压)	标称输出电流
OTi QBM 20/220...240/500 NFC S	2 kV	1 kV	20...50 V ⁵⁾	60 V	200...500 毫安 ⁶⁾
OTi QBM 30/220...240/700 NFC S	2 kV	1 kV	20...50 V ⁵⁾	60 V	350...700 毫安 ⁶⁾
OTi QBM 40/220...240/1A0 NFC S	2 kV	1 kV	20...50 V ⁵⁾	60 V	500...1050 毫安 ⁶⁾

产品描述	Default output current	Output current tolerance	输出纹波电流 (100 Hz)
OTi QBM 20/220...240/500 NFC S	350 毫安	±5 %	< 5 % ⁷⁾
OTi QBM 30/220...240/700 NFC S	500 毫安	±5 %	< 5 % ⁷⁾
OTi QBM 40/220...240/1A0 NFC S	700 毫安	±5 %	< 5 % ⁷⁾

产品描述	Output PSTLM	Output SVM	标称输出功率	Maximum output power
OTi QBM 20/220...240/500 NFC S	≤1	≤0.4	20 W ⁸⁾	20 W
OTi QBM 30/220...240/700 NFC S	≤1	≤0.4	30 W ¹⁰⁾	30 W
OTi QBM 40/220...240/1A0 NFC S	≤1	≤0.4	40 W ¹¹⁾	40 W

产品描述	Current set	Radio frequency	Maximum TX power
OTi QBM 20/220...240/500 NFC S	NFC	2.4 GHz	+4 dBm ⁹⁾
OTi QBM 30/220...240/700 NFC S	NFC	2.4 GHz	+4 dBm ⁹⁾
OTi QBM 40/220...240/1A0 NFC S	NFC	2.4 GHz	+4 dBm ⁹⁾

产品描述	Wireless protocol	Wireless range	初级/次级电气隔离	待机模式功耗
OTi QBM 20/220...240/500 NFC S	Qualified Bluetooth mesh enabled by Silvr	10 m line of sight	SELV	<0.15 W

产品系列数据表

产品描述	Wireless protocol	Wireless range	初级/次级电气隔离	待机模式功耗
OTi QBM 30/220...240/700 NFC S	Qualified Bluetooth mesh enabled by Silvair	10 m line of sight	SELV	<0.15 W
OTi QBM 40/220...240/1A0 NFC S	Qualified Bluetooth mesh enabled by Silvair	10 m line of sight	SELV	<0.15 W

产品描述	Networked standby power [PIM]
OTi QBM 20/220...240/500 NFC S	<0.22 W ³⁾
OTi QBM 30/220...240/700 NFC S	<0.22 W ³⁾
OTi QBM 40/220...240/1A0 NFC S	<0.22 W ³⁾

1) 允许电压范围
2) At full load, 220...240 V, 50 Hz / see graphs
3) at 230 V, 50 Hz
4) 位宽 = 200µs (在50%电流峰值处测得)
5) 最大 60 V
6) ±5%
7) Ripple average at 100 Hz
8) Partial load 4...20 W
9) 2,512 mW
10) Partial load 10...30 W
11) Partial load 20...40 W

尺寸和重量

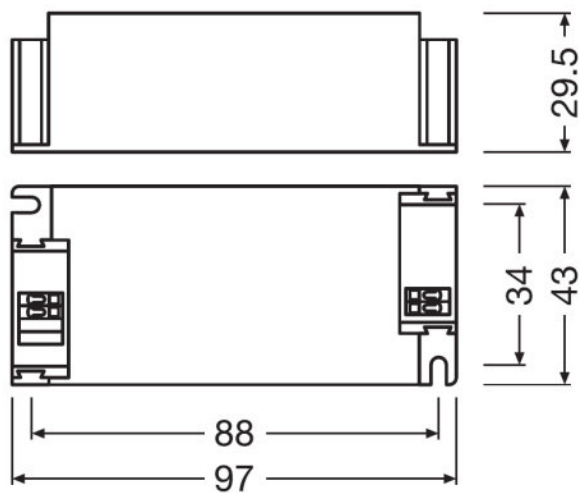
产品描述	安装孔距, 长度	安装孔距, 宽度	产品重量	输入端线缆截面	电缆截面积, 输出端
OTi QBM 20/220...240/500 NFC S	88.0 mm	34.0 mm	11000 g	0.5...1.5 mm ² ¹⁾	0.5...1.5 mm ² ¹⁾
OTi QBM 30/220...240/700 NFC S	88.0 mm	34.0 mm	11000 g	0.5...1.5 mm ² ¹⁾	0.5...1.5 mm ² ¹⁾
OTi QBM 40/220...240/1A0 NFC S	88.0 mm	34.0 mm	12000 g	0.5...1.5 mm ² ¹⁾	0.5...1.5 mm ² ¹⁾

产品描述	预留线缆长度, 输入端	预留线缆长度, 输出端	高度	长度	宽度
OTi QBM 20/220...240/500 NFC S	7...8 mm	7...8 mm	295 mm	970 mm	430 mm
OTi QBM 30/220...240/700 NFC S	7...8 mm	7...8 mm	295 mm	970 mm	430 mm
OTi QBM 40/220...240/1A0 NFC S	7...8 mm	7...8 mm	295 mm	970 mm	430 mm

1) 固态或软导线

产品系列数据表

产品系列标有数字



OTi QBM 20/220...240/500 NFC S, OTi QBM 30/220...240/700 NFC S, OTi QBM 40/220...240/1A0 NFC S

颜色和材料

产品描述	壳体材料
OTi QBM 20/220...240/500 NFC S	塑料
OTi QBM 30/220...240/700 NFC S	塑料
OTi QBM 40/220...240/1A0 NFC S	塑料

温度

产品描述	环境温度范围	相对湿度	仓储温度范围	故障时最高外壳温度
OTi QBM 20/220...240/500 NFC S	-20...+50 °C	5...85 % ¹⁾	-25...85 °C	110 °C
OTi QBM 30/220...240/700 NFC S	-20...+50 °C	5...85 % ¹⁾	-25...85 °C	110 °C
OTi QBM 40/220...240/1A0 NFC S	-20...+50 °C	5...85 % ¹⁾	-25...85 °C	110 °C

产品描述	温度系数测试点最高温度
OTi QBM 20/220...240/500 NFC S	75 °C ²⁾
OTi QBM 30/220...240/700 NFC S	75 °C ²⁾
OTi QBM 40/220...240/1A0 NFC S	85 °C ²⁾

¹⁾ 在85%的相对湿度下最多工作56天/年

²⁾ T_c温度点的最大值

产品系列数据表

寿命

产品描述	ECG 寿命
OTi QBM 20/220...240/500 NFC S	50000 / 100000 h ¹⁾
OTi QBM 30/220...240/700 NFC S	50000 / 100000 h ¹⁾
OTi QBM 40/220...240/1A0 NFC S	50000 / 100000 h ²⁾

¹⁾ T_c = 75°C, 0.2% / 1,000 h failure rate / T_c = 65°C, 0.1% / 1,000 h failure rate

²⁾ T_c = 85°C, 0.2% / 1,000 h failure rate / T_c = 75°C, 0.1% / 1,000 h failure rate

功能

产品描述	可调光	调光界面	调光范围	调光方式
OTi QBM 20/220...240/500 NFC S	是	Qualified Bluetooth mesh by Silvair	1...100 %	Amplitude Modulation
OTi QBM 30/220...240/700 NFC S	是	Qualified Bluetooth mesh by Silvair	1...100 %	Amplitude Modulation
OTi QBM 40/220...240/1A0 NFC S	是	Qualified Bluetooth mesh by Silvair	1...100 %	Amplitude Modulation

产品描述	过热保护	过载保护	Short-circuit protection	标准空载符合
OTi QBM 20/220...240/500 NFC S	自动可逆	自动可逆	自动可逆	是
OTi QBM 30/220...240/700 NFC S	自动可逆	自动可逆	自动可逆	是
OTi QBM 40/220...240/1A0 NFC S	自动可逆	自动可逆	自动可逆	是

产品描述	Intended for no-load operation	至灯/LED模块的最大电缆长度	适合带防护等级的固件	连接件类型，输入端
OTi QBM 20/220...240/500 NFC S	否	2.0 m ¹⁾	I / II	按键式端子
OTi QBM 30/220...240/700 NFC S	否	2.0 m ¹⁾	I / II	按键式端子
OTi QBM 40/220...240/1A0 NFC S	否	2.0 m ¹⁾	I / II	按键式端子

产品描述	连接件类型，输出端	Number of channels	Reset	适用于应急照明
OTi QBM 20/220...240/500 NFC S	按键式端子	1	Manual ²⁾	是
OTi QBM 30/220...240/700 NFC S	按键式端子	1	Manual ²⁾	是
OTi QBM 40/220...240/1A0 NFC S	按键式端子	1	Manual ²⁾	是

产品描述	恒定照明功能	适用于直通连接	DALI-2 Diagnostic Data
OTi QBM 20/220...240/500 NFC S	可编程	否	否
OTi QBM 30/220...240/700 NFC S	可编程	否	否
OTi QBM 40/220...240/1A0 NFC S	可编程	否	否

产品描述	DALI-2 Energy Data
OTi QBM 20/220...240/500 NFC S	否
OTi QBM 30/220...240/700 NFC S	否
OTi QBM 40/220...240/1A0 NFC S	否

¹⁾ Output wires must be routed as close as possible to each other

产品系列数据表

2) see additional product information

Programming

产品描述	Box programming	Tuner4TRONIC	Tuner4TRONIC Field App
OTi QBM 20/220...240/500 NFC S	Yes	是	是
OTi QBM 30/220...240/700 NFC S	Yes	是	是
OTi QBM 40/220...240/1A0 NFC S	Yes	是	是
产品描述	Programming device		
OTi QBM 20/220...240/500 NFC S	NFC		
OTi QBM 30/220...240/700 NFC S	NFC		
OTi QBM 40/220...240/1A0 NFC S	NFC		

Programmable features

产品描述	Emergency Mode	Lamp Operating Time	Driver Guard
OTi QBM 20/220...240/500 NFC S	是		
OTi QBM 30/220...240/700 NFC S	是	是	是
OTi QBM 40/220...240/1A0 NFC S	是		
产品描述	Configuration Lock	Soft Switch Off	Dim to Dark
OTi QBM 20/220...240/500 NFC S			
OTi QBM 30/220...240/700 NFC S	是	是	是
OTi QBM 40/220...240/1A0 NFC S			
产品描述	OEM Key		
OTi QBM 20/220...240/500 NFC S			
OTi QBM 30/220...240/700 NFC S	否		
OTi QBM 40/220...240/1A0 NFC S			

产品系列数据表

认证与标准

产品描述	认证标志 – 认证	标准	防护等级	防护类型
OTi QBM 20/220...240/500 NFC S	CE / EL / EAC ¹⁾	根据 EN 61347-1标准/根据 EN 61347-2-13标准/根据 EN 55015标准/根据 EN 61547标准/根据 EN 61000-3-2标准/根据 EN 62384标准/Acc. to EN 62479/Acc. to ETSI EN 300 328/Acc. to ETSI EN 301 489-17/Acc. to ETSI EN 301 489 - 1	II	IP20
OTi QBM 30/220...240/700 NFC S	CE / EL / EAC ¹⁾	根据 EN 61347-1标准/根据 EN 61347-2-13标准/根据 EN 55015标准/根据 EN 61547标准/根据 EN 61000-3-2标准/根据 EN 62384标准/Acc. to EN 62479/Acc. to ETSI EN 300 328/Acc. to ETSI EN 301 489-17/Acc. to ETSI EN 301 489 - 1	II	IP20
OTi QBM 40/220...240/1A0 NFC S	CE / EL / EAC ¹⁾	根据 EN 61347-1标准/根据 EN 61347-2-13标准/根据 EN 55015标准/根据 EN 61547标准/根据 EN 61000-3-2标准/根据 EN 62384标准/Acc. to EN 62479/Acc. to ETSI EN 300 328/Acc. to ETSI EN 301 489-17/Acc. to ETSI EN 301 489 - 1	II	IP20

¹⁾ In preparation

物流数据

产品描述	商品编码
OTi QBM 20/220...240/500 NFC S	85044095900
OTi QBM 30/220...240/700 NFC S	85044095900
OTi QBM 40/220...240/1A0 NFC S	850440959000

Environmental information
Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

产品描述	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OTi QBM 20/220...240/500 NFC S	05-05-2023	4062172110129	Lead
OTi QBM 30/220...240/700 NFC S	07-07-2023	4062172110143	Lead
OTi QBM 40/220...240/1A0 NFC S	18-10-2022	4062172110167	Lead

产品系列数据表

产品描述	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OTi QBM 20/220...240/500 NFC S	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	c3f33c40-89a9-4146-a55d-b711bd9783c7
OTi QBM 30/220...240/700 NFC S	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e5f4856e-18d4-4d90-964f-184212b45278
OTi QBM 40/220...240/1A0 NFC S	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	4816957a-af81-45f0-8a0b-5c495533d1ae

应用建议

更多详细应用信息和图形,请参阅产品数据表。

数据表文本

- By integrating the device into a casing the wireless range could be affected, in particular by metal surfaces. Therefore, the wireless range needs to be verified after integration.
- The device has passed successfully the SILVAIR Testing process.
- The device can be put into operation using the OSRAM HubSense Commissioning Tool (<https://platform.hubsense.eu>), subject to prior acceptance of the Terms of Use and the Privacy Policy.
- OSRAM may terminate or suspend the use of the HubSense Commissioning Tool at any time and for any or no reason in its sole discretion, even if access and use is continued to be allowed to others.
- The device complies with Bluetooth mesh Standard v1.0. It can also be used in 3rd party Bluetooth mesh network, that complies with this standard and that supports the mesh models of this device, and with certain 3rd party commissioning tools, that support the mesh models of this device. In order to ensure correct interoperability a verification with the 3rd party network components and the 3rd party commissioning tool is necessary in advance. Please contact OSRAM (support@hubsense.eu) to receive the actual list of supported models for this device.
- OSRAM shall have no liability for any 3rd party commissioning tool and does not make any representations, express or implied, about the availability and/or performance of such commissioning tool.
- OSRAM shall have no liability for and does not make any representations, express or implied, about the connectivity of OSRAM QBM products with any other products, that have passed the SILVAIR Testing process.
- Reset to factory setting: (1) Power off device and disconnect from mains, apply short circuit between LED+ and LED-, (2) connect device to mains and power on for at least 2 seconds, (3) power off device, disconnect from mains and remove short circuit. Reset completed.

销售和技术支持

销售和技术支持 www.osram.cn

下载数据

产品系列数据表

文件	
	User instruction OPTOTRONIC LED Power Supply
	User instruction OPTOTRONIC LED Power Supply
	证书 OTi QBM NFC S I UK DoC 4281118 110222
	证书 OT ENEC 40038447 260623
	证书 OT EMC 40044675 031022
	统一宣言 OTi QBM NFC S I CE 4200206 110222
	CAD数据 OTi QBM NFC S IGS 140220
	CAD数据 OTi QBM NFC S STEP 140220
	CAD数据2 OTi QBM NFC S CAD2PDF 140220
	CAD数据3 OTi QBM NFC S CAD3PDF 140220

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.

物流数据

产品代码	产品描述	包装单位 (件/单位)	尺寸 (长 x 宽 x 高)	体积	毛重
4062172110129	OTi QBM 20/220...240/500 NFC S	箱 20	208 mm x 158 mm x 107 mm	3.52 dm ³	2315.00 g
4062172110143	OTi QBM 30/220...240/700 NFC S	箱 20	228 mm x 208 mm x 78 mm	3.70 dm ³	2310.00 g
4062172110167	OTi QBM 40/220...240/1A0 NFC S	箱 20	209 mm x 158 mm x 107 mm	3.53 dm ³	2515.00 g

产品系列数据表

物流数据

这里所提到的产品编码代表最小订购数量。一个整件包装含有一个或多个单一产品。请您在下单时，按一个或多个整件数下单。

免责声明

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