

CV Power supplies 24 V



Areas of application

- Facades, public squares, cruise ships
- Signage
- Suitable for indoor and outdoor installations

Product family benefits

- Installation in cold and hot environments
- Very stable output power
- High electrical reversible short-circuit, overload, overtemperature protection
- Independent installation possible

Product family features

- Type of protection: IP20
- Wide operating temperature range: -20...+50 °C
- Lifetime: up to 30,000 h (temperature at max. t_c)

Product family datasheet

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Total harmonic distortion	Power factor λ
OT SLIM 30/220-240/24	220...240 V	50...60 Hz	195.5...276 V	176...250 V	< 5 %	> 0.95
OT SLIM 60/220-240/24	220...240 V	50...60 Hz	195.5...276 V	176...250 V	< 5 %	> 0.95
OT SLIM 100/220-240/24	220...240 V	50...60 Hz	195.5...276 V	176...250 V	< 5 %	> 0.95
OT SLIM 160/220-240/24	220...240 V	50...60 Hz	195.5...276 V	176...250 V	< 5 %	> 0.95
OT SLIM 250/220-240/24	220...240 V	50...60 Hz	195.5...276 V	176...250 V	< 5 %	> 0.95
OT 6/200...240/24 CE	200...240 V	50...60 Hz	180...264 V ¹⁾			0.50 ²⁾
OT 20/220...240/24	220...240 V	50...60 Hz	198...264 V ¹⁾	-	150 %	0.50 ²⁾
OT 50/220...240/24	220...240 V	50...60 Hz	198...264 V ¹⁰⁾	176...274 V ¹⁾	< 20 %	0.95/0.90 ¹¹⁾
OT 75/220...240/24	220...240 V	50...60 Hz	198...264 V ¹⁾		< 20 %	0.97 ²⁾

Product description	ECG efficiency	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 16 A (C)
OT SLIM 30/220-240/24	86 %	4.9 W	30 A	15	14	23
OT SLIM 60/220-240/24	88 %	8.2 W	40 A	11	10	17
OT SLIM 100/220-240/24	91 %	9.9 W	50 A	6	6	10
OT SLIM 160/220-240/24	92 %	13.9 W	60 A			5
OT SLIM 250/220-240/24	92 %	28 W	70 A			
OT 6/200...240/24 CE	80 %	1.5 W ³⁾	15 A ⁴⁾		48	
OT 20/220...240/24	83 %	4.0 W ⁷⁾	17 A	-	42	-
OT 50/220...240/24	85 % ¹²⁾	8.0 W ⁷⁾	45 A ¹³⁾		19	
OT 75/220...240/24	90 % ¹²⁾	9.0 W ³⁾	41 A ¹⁷⁾		11	

Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output power
OT SLIM 30/220-240/24	22	1 kV	24.2 V	24 V	30 W
OT SLIM 60/220-240/24	16	1 kV	24.2 V	24 V	60 W
OT SLIM 100/220-240/24	10	1 kV	24.2 V	24 V	100 W
OT SLIM 160/220-240/24	5	1 kV	24.2 V	24 V	160 W
OT SLIM 250/220-240/24		1 kV	24.2 V	24 V	250 W
OT 6/200...240/24 CE	-	1 kV	24 V ⁵⁾	25 V	6 W ⁶⁾
OT 20/220...240/24	-	1 kV	24 V ⁸⁾	24 V	20 W ⁹⁾
OT 50/220...240/24	-	1 kV	24 V ¹⁴⁾	24 V	50 W ¹⁵⁾
OT 75/220...240/24	-	1 kV	24 V ⁸⁾	24 V	75 W ¹⁸⁾

Product description	Galvanic isolation	Output ripple Voltage (100 Hz)	Max. ECG no. on circuit breaker 10 A (B)
OT SLIM 30/220-240/24	SELV	± 5 %	
OT SLIM 60/220-240/24	SELV	± 5 %	

Product family datasheet

Product description	Galvanic isolation	Output ripple Voltage (100 Hz)	Max. ECG no. on circuit breaker 10 A (B)
OT SLIM 100/220-240/24	SELV	± 5 %	
OT SLIM 160/220-240/24	SELV	± 5 %	
OT SLIM 250/220-240/24	SELV	± 5 %	
OT 6/200...240/24 CE	SELV		30
OT 20/220...240/24	SELV	-	23
OT 50/220...240/24	SELV		12
OT 75/220...240/24	SELV		7

Product description	Galvanic isolation primary/secondary	Surge capability (L/N-Ground)	Protective conductor current
OT SLIM 30/220-240/24			
OT SLIM 60/220-240/24			
OT SLIM 100/220-240/24			
OT SLIM 160/220-240/24			
OT SLIM 250/220-240/24			
OT 6/200...240/24 CE	3 kV		
OT 20/220...240/24	3 kV	-	
OT 50/220...240/24	3.75 kV ¹⁶⁾		
OT 75/220...240/24	3 kV ¹⁶⁾		<2.0 mA

1) Permitted voltage range

2) Minimum

3) Maximum at 230 V_{AC}, P_{out} = maximum, Ta=25 °C, steady state

4) At 240 V_{AC}

5) ±0.8 V

6) Partial load 0.9...6 W

7) Maximum

8) ±1.0 V

9) Partial load 0.5...20 W

10) V_{AC} / Permitted voltage range

11) Full load at 230 V/Half load at 230 V

12) At full load and 230 V

13) t_{width} = 80 μs (measured at 50 % I_{peak})

14) +0.9/-0.5 V

15) Partial load 0...50 W

16) SELV

17) t_{width} = 200 μs (measured at 50 % I_{peak})

18) Partial load 0...75 W

Product family datasheet

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
OT SLIM 30/220-240/24	222.0 mm	120.00 g	0.75...1.5 mm ²	0.75...1.5 mm ²	5.0 mm
OT SLIM 60/220-240/24	290.0 mm	170.00 g	0.75...1.5 mm ²	0.75...1.5 mm ²	5.0 mm
OT SLIM 100/220-240/24	326.0 mm	220.00 g	0.75...1.5 mm ²	0.75...1.5 mm ²	5.0 mm
OT SLIM 160/220-240/24	356.0 mm	285.00 g	0.75...1.5 mm ²	0.75...1.5 mm ²	5.0 mm
OT SLIM 250/220-240/24	295.0 mm	880.00 g	0.75...1.5 mm ²	0.75...1.5 mm ²	5.0 mm
OT 6/200...240/24 CE		52.00 g	1.0 mm ²	1.0 mm ²	10 mm
OT 20/220...240/24	-	108.00 g	0.75...1.5 mm ²	0.5...1.5 mm ²	10 mm
OT 50/220...240/24		290.00 g	0.75...1.5 mm ^{2 1)}	0.5...1.5 mm ^{2 1)}	10 mm
OT 75/220...240/24	180.0 mm	290.00 g	0.75...1.5 mm ^{2 1)}	0.5...1.5 mm ^{2 1)}	6.0 mm

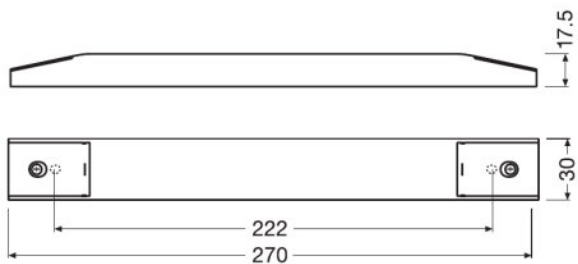
Product description	Wire preparation length, output side	Height	Width	Length	Cable/wire length, input side
OT SLIM 30/220-240/24	5.0 mm	17.5 mm	30.0 mm	270.0 mm	
OT SLIM 60/220-240/24	5.0 mm	17.5 mm	30.0 mm	338.0 mm	
OT SLIM 100/220-240/24	5.0 mm	18.5 mm	30.0 mm	374.0 mm	
OT SLIM 160/220-240/24	5.0 mm	21.5 mm	30.0 mm	404.0 mm	
OT SLIM 250/220-240/24	5.0 mm	31.0 mm	60.0 mm	343.0 mm	
OT 6/200...240/24 CE	10 mm	22.0 mm	50.0 mm	51.0 mm	185 mm
OT 20/220...240/24	10 mm	35.0 mm	50.0 mm	109.0 mm	-
OT 50/220...240/24	10 mm	16.0 mm	40.0 mm	242.0 mm	-
OT 75/220...240/24	6.0 mm	44.0 mm	47.0 mm	220.0 mm	-

Product description	Cable/wire length, output side
OT SLIM 30/220-240/24	
OT SLIM 60/220-240/24	
OT SLIM 100/220-240/24	
OT SLIM 160/220-240/24	
OT SLIM 250/220-240/24	
OT 6/200...240/24 CE	135 mm
OT 20/220...240/24	-
OT 50/220...240/24	-
OT 75/220...240/24	-

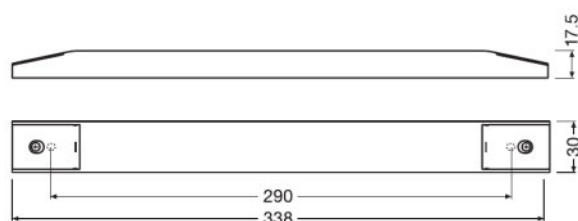
¹⁾ Solid or flexible leads

Product family datasheet

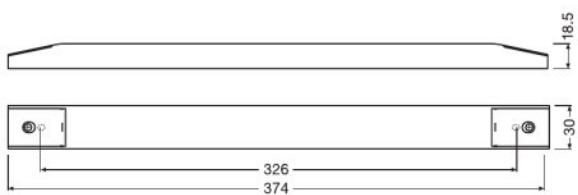
Product line drawing



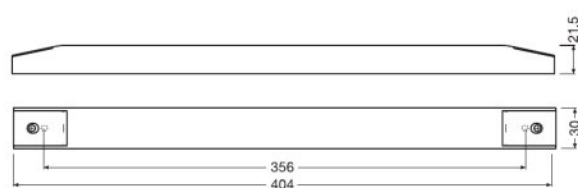
OT SLIM 30/220-240/24



OT SLIM 60/220-240/24

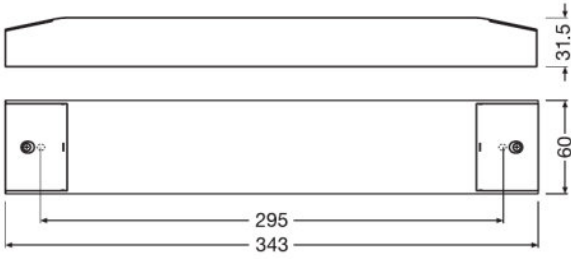


OT SLIM 100/220-240/24

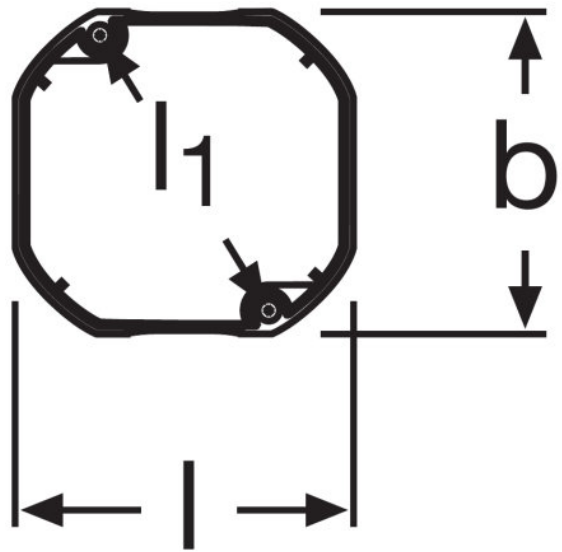


OT SLIM 160/220-240/24

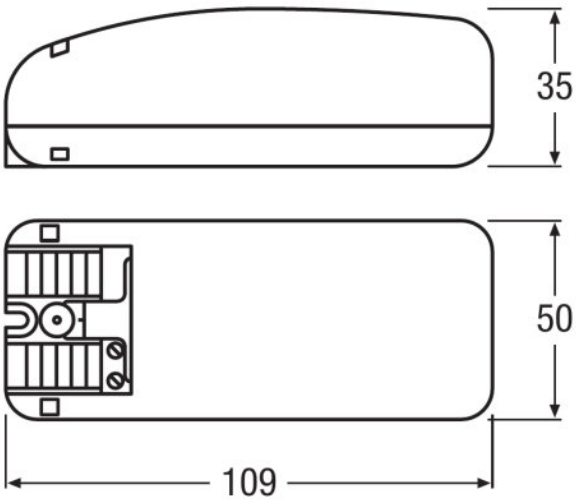
Product family datasheet



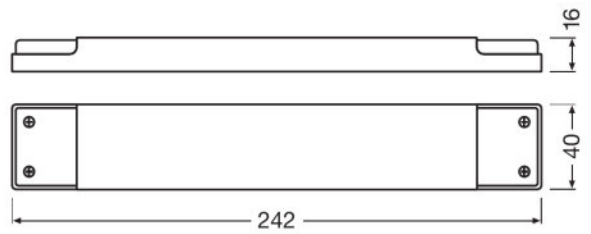
OT SLIM 250/220-240/24



OT 6/200...240/24 CE

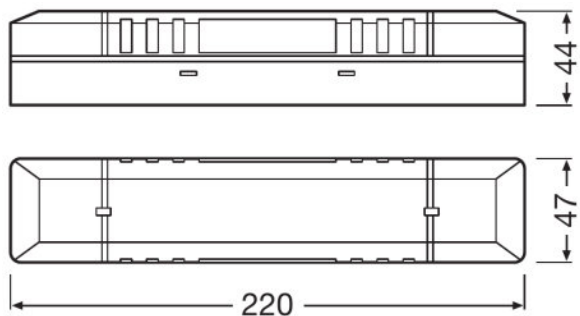


OT 20/220...240/24



OT 50/220...240/24

Product family datasheet



OT 75/220...240/24

Colors & materials

Product description	Casing material
OT SLIM 30/220-240/24	Plastic
OT SLIM 60/220-240/24	Plastic
OT SLIM 100/220-240/24	Plastic
OT SLIM 160/220-240/24	Plastic
OT SLIM 250/220-240/24	Plastic
OT 6/200...240/24 CE	Plastic
OT 20/220...240/24	Plastic
OT 50/220...240/24	Plastic
OT 75/220...240/24	Plastic

Product family datasheet

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
OT SLIM 30/220-240/24	-25...+45 °C	75 °C	110 °C	-40...+85 °C
OT SLIM 60/220-240/24	-25...+45 °C	70 °C	110 °C	-40...+85 °C
OT SLIM 100/220-240/24	-25...+45 °C	90 °C	110 °C	-40...+85 °C
OT SLIM 160/220-240/24	-25...+45 °C	75 °C	110 °C	-40...+85 °C
OT SLIM 250/220-240/24	-25...+45 °C	80 °C	110 °C	-40...+85 °C
OT 6/200...240/24 CE	-20...+50 °C	70 °C	100 °C	-40...+85 °C
OT 20/220...240/24	-20...+50 °C	70 °C	90 °C	-40...+85 °C
OT 50/220...240/24	-20...+45 °C	95 °C	110 °C	-30...85 °C
OT 75/220...240/24	-20...+50 °C	80 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
OT SLIM 30/220-240/24	5...85 % ¹⁾
OT SLIM 60/220-240/24	5...85 % ¹⁾
OT SLIM 100/220-240/24	5...85 % ¹⁾
OT SLIM 160/220-240/24	5...85 % ¹⁾
OT SLIM 250/220-240/24	5...85 % ¹⁾
OT 6/200...240/24 CE	5...85 % ¹⁾
OT 20/220...240/24	5...85 % ¹⁾
OT 50/220...240/24	5...85 % ¹⁾
OT 75/220...240/24	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OT SLIM 30/220-240/24	50000 h
OT SLIM 60/220-240/24	50000 h
OT SLIM 100/220-240/24	50000 h
OT SLIM 160/220-240/24	50000 h
OT SLIM 250/220-240/24	50000 h
OT 6/200...240/24 CE	50000 h ¹⁾
OT 20/220...240/24	30000 h
OT 50/220...240/24	50000 h ²⁾
OT 75/220...240/24	50000 h ²⁾

¹⁾ At $T_{case} = 60^{\circ}C$ at T_c point / 10% failure rate

²⁾ At $T_{case} = 80^{\circ}C$ at T_c point / 10% failure rate

Product family datasheet

Additional product data

Product description	Encapsulated
OT SLIM 30/220-240/24	No
OT SLIM 60/220-240/24	No
OT SLIM 100/220-240/24	No
OT SLIM 160/220-240/24	No
OT SLIM 250/220-240/24	No
OT 6/200...240/24 CE	No
OT 20/220...240/24	No
OT 50/220...240/24	No
OT 75/220...240/24	No

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Overload protection
OT SLIM 30/220-240/24	No	-	-	Automatic reversible
OT SLIM 60/220-240/24	No	-	-	Automatic reversible
OT SLIM 100/220-240/24	No	-	-	Automatic reversible
OT SLIM 160/220-240/24	No	-	-	Automatic reversible
OT SLIM 250/220-240/24	No	-	-	Automatic reversible
OT 6/200...240/24 CE	No ¹⁾			Automatic reversible
OT 20/220...240/24	No ¹⁾	-	-	Automatic reversible
OT 50/220...240/24	No ¹⁾			Automatic reversible
OT 75/220...240/24	No ¹⁾			Automatic reversible

Product description	Short-circuit protection	No-load proof	Suitable for fixtures with prot. class	Type of connection, input side
OT SLIM 30/220-240/24	Automatic reversible	-	I / II	Screw terminal
OT SLIM 60/220-240/24	Automatic reversible	-	I / II	Screw terminal
OT SLIM 100/220-240/24	Automatic reversible	-	I / II	Screw terminal
OT SLIM 160/220-240/24	Automatic reversible	-	I / II	Screw terminal
OT SLIM 250/220-240/24	Automatic reversible	-	I / II	Screw terminal
OT 6/200...240/24 CE	Automatic reversible	Yes	II	
OT 20/220...240/24	Automatic reversible	Yes	II	
OT 50/220...240/24	Automatic reversible	Yes	II	
OT 75/220...240/24	Automatic reversible	Yes	II	

Product description	Type of connection, output side	Overheating protection	Number of channels
OT SLIM 30/220-240/24	Screw terminal		
OT SLIM 60/220-240/24	Screw terminal		
OT SLIM 100/220-240/24	Screw terminal		
OT SLIM 160/220-240/24	Screw terminal		
OT SLIM 250/220-240/24	Screw terminal		
OT 6/200...240/24 CE		Automatic reversible	
OT 20/220...240/24	Screw terminal	Automatic reversible	1

Product family datasheet

Product description	Type of connection, output side	Overheating protection	Number of channels
OT 50/220...240/24	Screw terminal	Automatic reversible	
OT 75/220...240/24	Screw terminal	Automatic reversible	

¹⁾ With OPTOTRONIC dimmers

Programming

Product description	Tuner4TRONIC	Tuner4TRONIC Field App
OT SLIM 30/220-240/24	-	-
OT SLIM 60/220-240/24	-	-
OT SLIM 100/220-240/24	-	-
OT SLIM 160/220-240/24	-	-
OT SLIM 250/220-240/24	-	-
OT 6/200...240/24 CE		
OT 20/220...240/24		
OT 50/220...240/24		
OT 75/220...240/24		

Product family datasheet

Certificates & standards

Product description	Approval marks – approval	Standards	Protection class	Type of protection
OT SLIM 30/220-240/24	CE / CB / ENEC / CCC / EAC / RCM / BIS	Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3	II	IP20
OT SLIM 60/220-240/24	CE / CB / ENEC / CCC / EAC / RCM / BIS	Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3	II	IP20
OT SLIM 100/220-240/24	CE / CB / ENEC / CCC / EAC / RCM / BIS	Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3	II	IP20
OT SLIM 160/220-240/24	CE / CB / ENEC / CCC / EAC / RCM / BIS	Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3	II	IP20
OT SLIM 250/220-240/24	CE / CB / ENEC / CCC / EAC / RCM / BIS	Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3	II	IP20
OT 6/200...240/24 CE	CE / VDE / ENEC 10 / CB	Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547 ¹⁾	II	IP65
OT 20/220...240/24	CE / ENEC 10 / VDE / VDE-EMC / RCM	Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547	II	IP20
OT 50/220...240/24	CE / CB / RCM / ENEC 18	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to CISPR 15/Acc. to IEC 61000-3-2/Acc. to IEC 61547	II	IP20
OT 75/220...240/24	CE / ENEC 10 / VDE / VDE-EMC / RCM	Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547	II	IP20

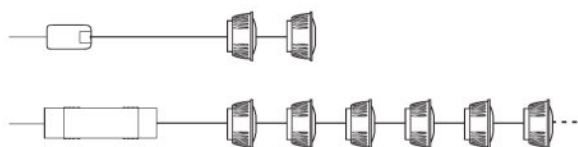
¹⁾ Secondary switching not allowed

Product family datasheet

Logistical data

Product description	Commodity code
OT SLIM 30/220-240/24	850440829000
OT SLIM 60/220-240/24	850440829000
OT SLIM 100/220-240/24	850440829000
OT SLIM 160/220-240/24	850440829000
OT SLIM 250/220-240/24	850440829000
OT 6/200...240/24 CE	850440829000
OT 20/220...240/24	850440829000
OT 50/220...240/24	850440829000
OT 75/220...240/24	850440829000

Wiring Diagram



OT 75/220...240/24



OT 75/220...240/24

Application advice

For more detailed application information and graphics please see product datasheet.
Attention: Only compatible for devices up to ANDROID 9

Sales and Technical Support














Sales and Technical Support www.osram.com

Product family datasheet






















Country specific information

Product description	Product code	METEL code	SEG-No.	STK number	UK Org
OT 6/200...240/24 CE	4008321113269	OSROT624CE	-	4031154	-
OT 6/200...240/24 CE	4008321113269	OSROT624CE	-	4031154	-
OT 20/220...240/24	4050300618111	OSROT2024	-	4031160	-
OT 20/220...240/24	4050300618111	OSROT2024	-	4031160	-
OT 50/220...240/24	4052899905566	-	-	4030200	-
OT 50/220...240/24	4052899905566	-	-	4030200	-
OT 75/220...240/24	4050300817477	OSROT7524	-	4031164	-
OT 75/220...240/24	4050300817477	OSROT7524	-	4031164	-

Download Data

File	
	User instruction OT SLIM
	Declarations of conformity OT SLIM 30 60 CE 4200563 110320
	CAD data OT SLIM 30 STEP 290420
	CAD data OT SLIM 60 STEP 290420
	Declarations of conformity OT SLIM 100 160 250 CE 4205404 310320
	CAD data OT SLIM 100 STEP 290420
	CAD data OT SLIM 160 STEP 290420
	CAD data PDF OT SLIM 250 STEP 290420
	User instruction OPTOTRONIC CONSTANT VOLTAGE
	Addon Technical Information 313236_ADDON TECHNICAL INFO OT 6200-24010 CE VS20 and OT 6200-24024 CE VS20 (GB)
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	Brochures 730792_Light is universal - Easy installation of efficient complete systems (DE)
	Brochures 730791_Light is universal - Easy installation of efficient complete systems (EN)

Product family datasheet

	Certificates OT ENEC 40038447 180520
	Declarations of conformity 334859_Declaration of conformity – OT 6200-24010 CE
	Declarations of conformity EU Declaration of Conformity 3578669
	CAD data 3-dim 313445_51x52x22 9900045
	CAD data 3-dim 313473_51x52x22 9900045
	CAD data PDF 313405_51x52x22 9900045
	User instruction OPTOTRONIC LED Power Supply
	Addon Technical Information 313233_ADDON TECHNICAL INFORMATION OT 20230-24024 VS20 OSRAM (GB)
	Certificates VDE EMC Certificate 40011668
	Declarations of conformity 334871_Declaration of conformity – OT 20220-24024
	Certificates 664760_CEAG OT50
	Certificates 664761_ENEC mark approval_OT 5024
	Declarations of conformity 728507_EU Declaration OT
	Declarations of conformity 3540710_EU Declaration of conformity OT 50220-24024
	Installation/Operation notice 343028_Instruction Sheet OT 50220-24024
	Addon Technical Information 313226_ADDON TECHNICAL INFORMATION OT 75220-24024 VS10 OSRAM (GB)
	Declarations of conformity 334875_Declaration of conformity OT 75220-24024
	CAD data 3-dim 313470_220x47x44 9900016
	CAD data 3-dim 313501_220x47x44 9900016
	CAD data 3-dim 314272_220x47x44 9900016
	CAD data PDF 313401_220x47x44 9900016

Logistical Data

Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172135733	OT SLIM 30/220-240/24	Shipping carton box 50	315 mm x 282 mm x 145 mm	12.88 dm ³	6453.00 g
4062172135856	OT SLIM 60/220-240/24	Shipping carton box 30	351 mm x 192 mm x 145 mm	9.77 dm ³	5560.00 g
4062172135870	OT SLIM 100/220-240/24	Shipping carton box 30	387 mm x 192 mm x 150 mm	11.15 dm ³	7058.00 g
4062172135894	OT SLIM 160/220-240/24	Shipping carton box 30	417 mm x 192 mm x 165 mm	13.21 dm ³	8996.00 g
4062172135917	OT SLIM 250/220-240/24	Shipping carton box 10	357 mm x 312 mm x 100 mm	11.14 dm ³	9236.00 g
4008321113269	OT 6/200...240/24 CE	Shipping carton box 20	328 mm x 76 mm x 138 mm	3.44 dm ³	1212.50 g
4050300618111	OT 20/220...240/24	Shipping carton box 20	270 mm x 105 mm x 229 mm	6.49 dm ³	2396.00 g
4052899905566	OT 50/220...240/24	Shipping carton box 20	288 mm x 134 mm x 248 mm	9.57 dm ³	4758.00 g
4050300817477	OT 75/220...240/24	Shipping carton box 10	252 mm x 118 mm x 246 mm	7.32 dm ³	3135.50 g

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.

Disclaimer

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