

## CV Power supplies 24 V



### Product family features

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

### Product family benefits

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

### Areas of application

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

## Product family datasheet

### Technical data

Product description	Electrical data					
	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Total harmonic distortion	Power factor $\lambda$
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 <sup>2)</sup>			0.50 <sup>3)</sup>
OT 20/220...240/24	220...240 V	50...60 Hz	198...264 V <sup>2)</sup>	-	150 %	0.50 <sup>3)</sup>
OT 50/220...240/24	220...240 V	50...60 Hz	198...264 V <sup>14)</sup>	176...274 V <sup>2)</sup>	< 20 %	0.95/0.90 <sup>15)</sup>
OT 75/220...240/24	220...240 V	50...60 Hz	198...264 V <sup>2)</sup>		< 20 %	0.97 <sup>3)</sup>

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 <sup>4)</sup>	15 A <sup>5)</sup>		48	
OT 20/220...240/24	83 %	4.0 W <sup>11)</sup>	17 A	-	42	-
OT 50/220...240/24	85 % <sup>16)</sup>	8.0 W <sup>11)</sup>	45 A <sup>17)</sup>		19	
OT 75/220...240/24	90 % <sup>16)</sup>	9.0 W <sup>4)</sup>	41 A <sup>23)</sup>		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 <sup>6)</sup>	25 V	6 W <sup>7)</sup>
OT 20/220...240/24	-	1 kV	24 V <sup>12)</sup>	24 V	20 W <sup>13)</sup>
OT 50/220...240/24	-	1 kV	24 V <sup>18)</sup>	24 V	50 W <sup>19)</sup>
OT 75/220...240/24	-	1 kV	24 V <sup>12)</sup>	24 V	75 W <sup>24)</sup>

## Product family datasheet

Product description	Galvanic isolation	Output ripple Voltage (100 Hz)	Max. ECG no. on circuit breaker 10 A (B)	Galvanic isolation primary/secondary	Surge capability (L/N-Ground)
OT SLIM 30/220-240/24	SELV	± 5 %			
OT SLIM 60/220-240/24	SELV	± 5 %			
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	3 kV	
OT 20/220...240/24	SELV	-	23	3 kV	-
OT 50/220...240/24	SELV		12	3.75 kV <sup>20)</sup>	
OT 75/220...240/24	SELV		7	3 kV <sup>20)</sup>	

Product description	Protective conductor current	Dimensions & weight			
		Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side
OT SLIM 30/220-240/24		222.0 mm	120.00 g	0.75...1.5 mm <sup>2</sup>	0.75...1.5 mm <sup>2</sup>
OT SLIM 60/220-240/24		290.0 mm	170.00 g	0.75...1.5 mm <sup>2</sup>	0.75...1.5 mm <sup>2</sup>
OT SLIM 100/220-240/24		326.0 mm	220.00 g	0.75...1.5 mm <sup>2</sup>	0.75...1.5 mm <sup>2</sup>
OT SLIM 160/220-240/24		356.0 mm	285.00 g	0.75...1.5 mm <sup>2</sup>	0.75...1.5 mm <sup>2</sup>
OT SLIM 250/220-240/24		295.0 mm	880.00 g	0.75...1.5 mm <sup>2</sup>	0.75...1.5 mm <sup>2</sup>
OT 6/200...240/24 CE			52.00 g	1.0 mm <sup>2</sup>	1.0 mm <sup>2</sup>
OT 20/220...240/24		-	108.00 g	0.75...1.5 mm <sup>2</sup>	0.5...1.5 mm <sup>2</sup>
OT 50/220...240/24			290.00 g	0.75...1.5 mm <sup>2</sup> 21)	0.5...1.5 mm <sup>2</sup> 21)
OT 75/220...240/24	<2.0 mA	180.0 mm	290.00 g	0.75...1.5 mm <sup>2</sup> 21)	0.5...1.5 mm <sup>2</sup> 21)

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

## Product family datasheet

Product description	Wire preparation length, input side	Wire preparation length, output side	Height	Width	Length
OT 75/220...240/24	6.0 mm	6.0 mm	44.0 mm	47.0 mm	220.0 mm

Product description	Cable/wire length, input side	Cable/wire length, output side	Colors & materials	Temperatures & operating conditions	
			Casing material	Ambient temperature range	Maximum temperature at tc test point
OT SLIM 30/220-240/24			Plastic	-25...+45 °C	75 °C
OT SLIM 60/220-240/24			Plastic	-25...+45 °C	70 °C
OT SLIM 100/220-240/24			Plastic	-25...+45 °C	80 °C
OT SLIM 160/220-240/24			Plastic	-25...+45 °C	75 °C
OT SLIM 250/220-240/24			Plastic	-25...+45 °C	80 °C
OT 6/200...240/24 CE	185 mm	135 mm	Plastic	-20...+50 °C	70 °C
OT 20/220...240/24	-	-	Plastic	-20...+50 °C	70 °C
OT 50/220...240/24	-	-	Plastic	-20...+45 °C	95 °C
OT 75/220...240/24	-	-	Plastic	-20...+50 °C	80 °C

Product description	Max.housing temperature in case of fault	Temperature range at storage	Permitted rel. humidity during operation	Lifespan
				ECG lifetime
OT SLIM 30/220-240/24	110 °C	-40...+85 °C	5...85 % <sup>1)</sup>	50000 h
OT SLIM 60/220-240/24	110 °C	-40...+85 °C	5...85 % <sup>1)</sup>	50000 h
OT SLIM 100/220-240/24	110 °C	-40...+85 °C	5...85 % <sup>1)</sup>	50000 h
OT SLIM 160/220-240/24	110 °C	-40...+85 °C	5...85 % <sup>1)</sup>	50000 h
OT SLIM 250/220-240/24	110 °C	-40...+85 °C	5...85 % <sup>1)</sup>	50000 h
OT 6/200...240/24 CE	100 °C	-40...+85 °C	5...85 % <sup>1)</sup>	50000 h <sup>8)</sup>
OT 20/220...240/24	90 °C	-40...+85 °C	5...85 % <sup>1)</sup>	30000 h
OT 50/220...240/24	110 °C	-30...+85 °C	5...85 % <sup>1)</sup>	50000 h <sup>22)</sup>
OT 75/220...240/24	110 °C	-40...+85 °C	5...85 % <sup>1)</sup>	50000 h <sup>22)</sup>

Product description	Capabilities			Overload protection
	Dimmable	Dimming interface	Dimming range	
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

## Product family datasheet

Product description	Capabilities			
	Dimmable	Dimming interface	Dimming range	Overload protection
OT 6/200...240/24 CE	No <sup>9)</sup>			Automatic reversible
OT 20/220...240/24	No <sup>9)</sup>	-	-	Automatic reversible
OT 50/220...240/24	No			Automatic reversible
OT 75/220...240/24	No <sup>9)</sup>			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	Certificates & standards
				Approval marks – approval
OT SLIM 30/220-240/24	Screw terminal			CE / CB / ENEC / CCC / EAC / RCM / BIS
OT SLIM 60/220-240/24	Screw terminal			CE / CB / ENEC / CCC / EAC / RCM / BIS
OT SLIM 100/220-240/24	Screw terminal			CE / CB / ENEC / CCC / EAC / RCM / BIS
OT SLIM 160/220-240/24	Screw terminal			CE / CB / ENEC / CCC / EAC / RCM / BIS
OT SLIM 250/220-240/24	Screw terminal			CE / CB / ENEC / CCC / EAC / RCM / BIS
OT 6/200...240/24 CE		Automatic reversible		CE / VDE / ENEC 10 / CB
OT 20/220...240/24	Screw terminal	Automatic reversible	1	CE / ENEC 10 / VDE / VDE-EMC / RCM
OT 50/220...240/24	Screw terminal	Automatic reversible		CE / CB / RCM / ENEC 18

## Product family datasheet

Product description	Type of connection, output side	Overheating protection	Number of channels	Certificates & standards
				Approval marks – approval
OT 75/220...240/24	Screw terminal	Automatic reversible		CE / ENEC 10 / VDE / VDE-EMC / RCM

Product description	Standards	Protection class	Type of protection	Logistical data
				Commodity code
OT SLIM 30/220-240/24	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	850440829000
OT SLIM 60/220-240/24	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	850440829000
OT SLIM 100/220-240/24	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	850440829000
OT SLIM 160/220-240/24	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	850440829000
OT SLIM 250/220-240/24	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	850440829000
OT 6/200...240/24 CE	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 <sup>10)</sup>	II	IP65	850440829000
OT 20/220...240/24	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	850440829000

## Product family datasheet

Product description	Standards	Protection class	Type of protection	Logistical data
				Commodity code
OT 50/220...240/24	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	850440829000
OT 75/220...240/24	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	850440829000

1) Maximum 56 days/year at 85 %

2) Permitted voltage range

3) Minimum

4) Maximum at 230 V<sub>AC</sub>, P<sub>out</sub> = maximum, Ta=25 °C, steady state

5) At 240 V<sub>AC</sub>

6) ±0.8 V

7) Partial load 0.9...6 W

8) At T<sub>case</sub> = 60°C at T<sub>c</sub> point / 10% failure rate

9) With OPTOTRONIC dimmers

10) Secondary switching not allowed

11) Maximum

12) ±1.0 V

13) Partial load 0.5...20 W

14) V<sub>AC</sub>

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

16) At full load and 230 V

17) t<sub>width</sub> = 80 μs (measured at 50 % I<sub>peak</sub>)

18) +0.9/-0.5 V

19) Partial load 0...50 W

20) SELV

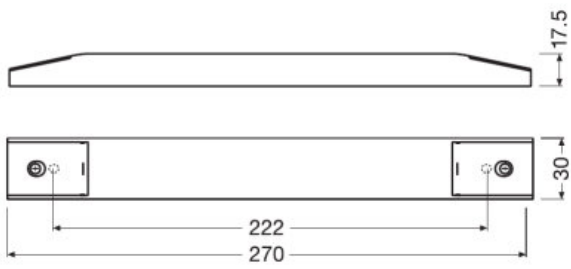
21) Solid or flexible leads

22) At T<sub>case</sub> = 80°C at T<sub>c</sub> point / 10% failure rate

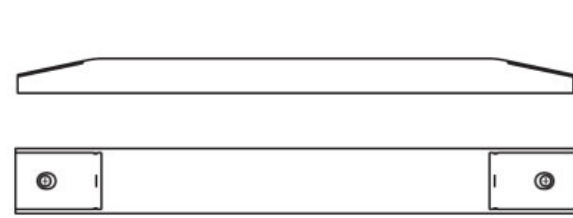
23) t<sub>width</sub> = 200 μs (measured at 50 % I<sub>peak</sub>)

24) Partial load 0...75 W

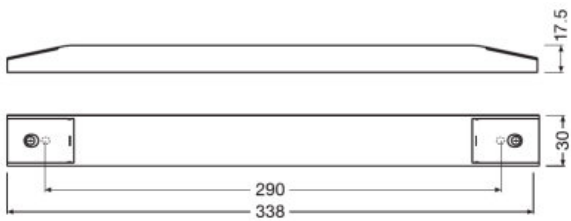
## Product family datasheet



OT SLIM 30



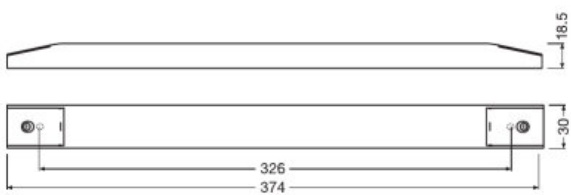
OT SLIM 30



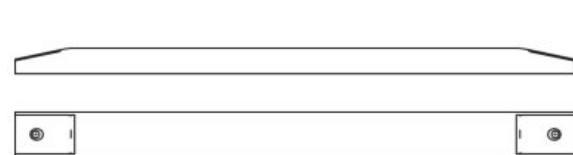
OT SLIM 60



OT SLIM 60



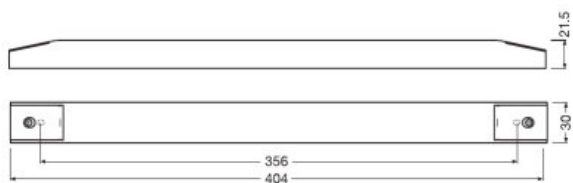
OT SLIM 100



OT SLIM 100



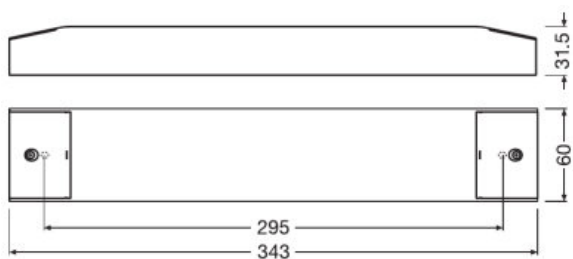
# Product family datasheet



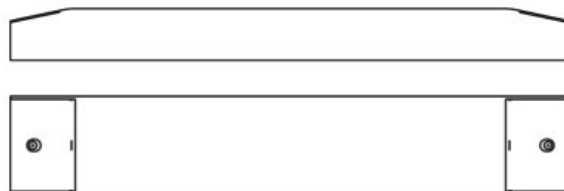
OT SLIM 160



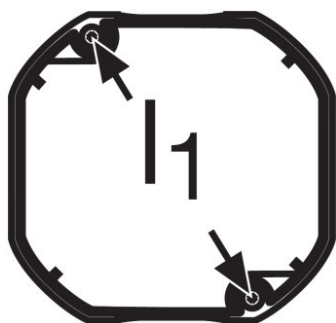
OT SLIM 160



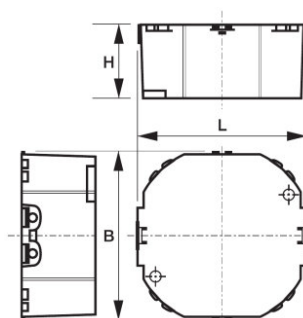
OT SLIM 250



OT SLIM 250

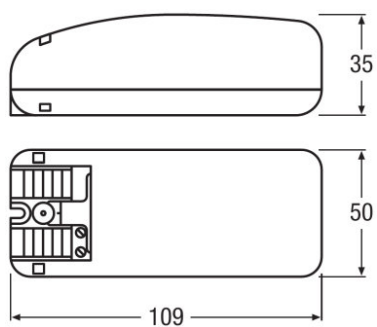


330712\_OPROTRONIC OT 6200-24010

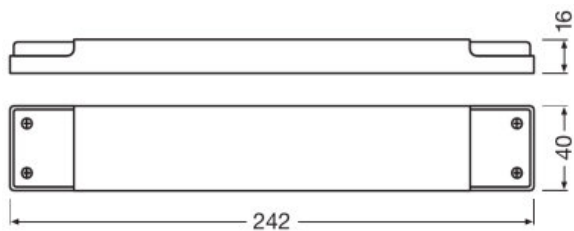


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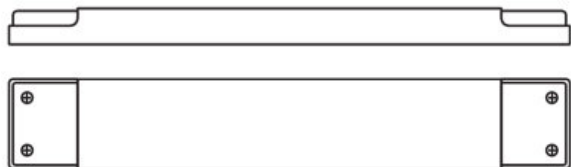
## Product family datasheet



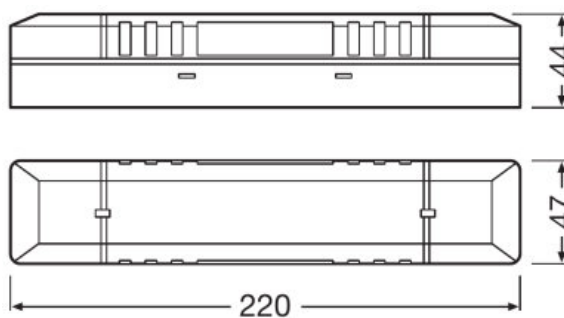
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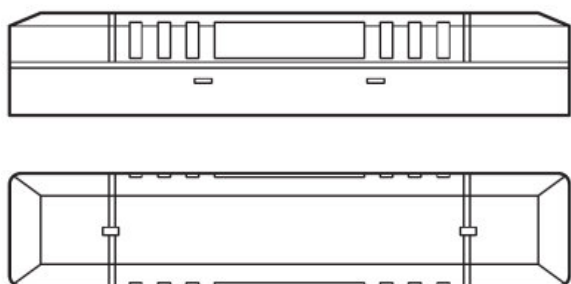
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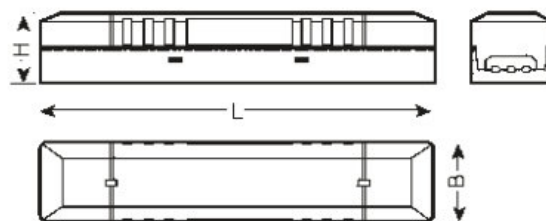
340656\_OPTOTRONIC OT 50220-24024



502930\_OT 75220-24024



502947\_OT 75220-24024



323945\_OPTOTRONIC OT 50220-24024

## Product family datasheet

### Application advice

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

### Additional product information

- EMI pass verified with wire length of 2 m, from the ECG to the LED module at full load.
- Wiring longer than 2 m from ECG to LED module is possible, but site installation conditions may interfere with EMI with these longer cables. EMI is therefore not verified in this condition.
- For wires longer than 2 m, the appropriate cable cross section must be carefully selected to reduce voltage drop.






### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### 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
 Product Datasheet OT SLIM 30220-24024 Technical Datasheet (EN)
 Declarations of conformity OT SLIM 30 60 CE 4200563 110320
 CAD data OT SLIM 30 STEP 290420
 Product Datasheet OT SLIM 60220-24024 Technical Datasheet (EN)

## Product family datasheet

	CAD data OT SLIM 60 STEP 290420
	Product Datasheet OT SLIM 100220-24024 Technical Datasheet (EN)
	Declarations of conformity OT SLIM 100 160 250 CE 4205404 310320
	CAD data OT SLIM 100 STEP 290420
	Product Datasheet OT SLIM 160220-24024 Technical Datasheet (EN)
	CAD data OT SLIM 160 STEP 290420
	Product Datasheet OT SLIM 250220-24024 Technical Datasheet (EN)
	Certificates OT SLIM RCM NSW28298 280720
	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)
	Certificates OT ENEC 40038447 210721
	Declarations of conformity 334859_Declaration of conformity &#150; 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)
	Declarations of conformity 334871_Declaration of conformity &#150; OT 20220-24024

## Product family datasheet

	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 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 <sup>3</sup>	6453.00 g
4062172135856	OT SLIM 60/220-240/24	Shipping carton box 30	350 mm x 192 mm x 145 mm	9.74 dm <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	1212.50 g
4050300618111	OT 20/220...240/24	Shipping carton box 20	270 mm x 105 mm x 229 mm	6.49 dm <sup>3</sup>	2396.00 g
4052899905566	OT 50/220...240/24	Shipping carton box 20	288 mm x 134 mm x 248 mm	9.57 dm <sup>3</sup>	4758.00 g

## Product family datasheet

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### Logistical Data

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4050300817477	OT 75/220...240/24	Shipping carton box 10	252 mm x 118 mm x 246 mm	7.32 dm <sup>3</sup>	3135.50 g
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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.

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### Disclaimer

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