

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 electronical 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 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 ⁴⁾			0.50 ⁵⁾
OT 20/220...240/24	220...240 V	50...60 Hz	198...264 V ⁴⁾	-	150 %	0.50 ⁵⁾

Product description	Efficiency in full-load	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 % ¹⁾	4.9 W	30 A	15	14	23
OT SLIM 60/220-240/24	90 % ¹⁾	8.2 W	40 A	11	10	17
OT SLIM 100/220-240/24	91 % ¹⁾	9.9 W	50 A	6	6	10
OT SLIM 160/220-240/24	92 % ¹⁾	13.9 W	60 A			5
OT SLIM 250/220-240/24	91 % ¹⁾	28 W	70 A			
OT 6/200...240/24 CE	80 % ¹⁾	1.5 W ⁶⁾	15 A ⁷⁾		48	
OT 20/220...240/24	83 % ¹⁾	4.0 W ¹³⁾	17 A	-	42	-

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 ⁸⁾	25 V	6 W ⁹⁾
OT 20/220...240/24	-	1 kV	24 V ¹⁴⁾	24 V	20 W ¹⁵⁾

Product description	Maximum output power	Galvanic isolation	Output ripple Voltage (100 Hz)	Max. ECG no. on circuit breaker 10 A (B)	Galvanic isolation primary/secondary
OT SLIM 30/220-240/24	30 W ²⁾	SELV	± 5 %		
OT SLIM 60/220-240/24	60 W ²⁾	SELV	± 5 %		

Product family datasheet

Product description	Maximum output power	Galvanic isolation	Output ripple Voltage (100 Hz)	Max. ECG no. on circuit breaker 10 A (B)	Galvanic isolation primary/secondary
OT SLIM 100/220-240/24	100 W ²⁾	SELV	± 5 %		
OT SLIM 160/220-240/24	160 W ²⁾	SELV	± 5 %		
OT SLIM 250/220-240/24	250 W ²⁾	SELV	± 5 %		
OT 6/200...240/24 CE	6 W ²⁾	SELV		30	3 kV
OT 20/220...240/24	20 W ²⁾	SELV	-	23	3 kV

Product description	Surge capability (L/N-Ground)	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 ²	0.75...1.5 mm ²
OT SLIM 60/220-240/24		290.0 mm	170.00 g	0.75...1.5 mm ²	0.75...1.5 mm ²
OT SLIM 100/220-240/24		326.0 mm	220.00 g	0.75...1.5 mm ²	0.75...1.5 mm ²
OT SLIM 160/220-240/24		356.0 mm	285.00 g	0.75...1.5 mm ²	0.75...1.5 mm ²
OT SLIM 250/220-240/24		295.0 mm	880.00 g	0.75...1.5 mm ²	0.75...1.5 mm ²
OT 6/200...240/24 CE			52.00 g	1.0 mm ²	1.0 mm ²
OT 20/220...240/24	-	-	108.00 g	0.75...1.5 mm ²	0.5...1.5 mm ²

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

			Colors & materials	Temperatures & operating conditions	
Product description	Cable/wire length, input side	Cable/wire length, output side	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

Product family datasheet

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 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

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 % ³⁾	50000 h
OT SLIM 60/220-240/24	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h
OT SLIM 100/220-240/24	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h
OT SLIM 160/220-240/24	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h
OT SLIM 250/220-240/24	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h
OT 6/200...240/24 CE	100 °C	-40...+85 °C	5...85 % ³⁾	50000 h ¹⁰⁾
OT 20/220...240/24	90 °C	-40...+85 °C	5...85 % ³⁾	30000 h

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
OT 6/200...240/24 CE	No ¹¹⁾			Automatic reversible
OT 20/220...240/24	No ¹¹⁾	-	-	Automatic reversible

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Suitable for fixtures with prot. class
OT SLIM 30/220-240/24	Automatic reversible	-	No	I / II
OT SLIM 60/220-240/24	Automatic reversible	-	No	I / II
OT SLIM 100/220-240/24	Automatic reversible	-	No	I / II
OT SLIM 160/220-240/24	Automatic reversible	-	No	I / II
OT SLIM 250/220-240/24	Automatic reversible	-	No	I / II

Product family datasheet

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Suitable for fixtures with prot. class
OT 6/200...240/24 CE	Automatic reversible	Yes	No	II
OT 20/220...240/24	Automatic reversible	Yes	No	II

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

Product description	Certificates & standards			
	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

Product family datasheet

Product description	Certificates & standards			
	Approval marks – approval	Standards	Protection class	Type of protection
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 ¹²⁾	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

Product description	Logistical data	Environmental information		
	Commodity code	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OT SLIM 30/220-240/24	850440829000	23-12-2021	4062172135733	Lead
OT SLIM 60/220-240/24	850440829000	23-12-2021	4062172135856	Lead
OT SLIM 100/220-240/24	850440829000	23-12-2021	4062172135870	Lead
OT SLIM 160/220-240/24	850440829000	23-12-2021	4062172135894	Lead
OT SLIM 250/220-240/24	850440829000	23-12-2021	4062172135917	Lead
OT 6/200...240/24 CE	850440829000	23-12-2021	4008321113269	Lead
OT 20/220...240/24	850440829000	23-12-2021	4050300618111	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT SLIM 30/220-240/24	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	340bce60-5ac7-425a-8588-3060cec916dc
OT SLIM 60/220-240/24	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	431fbfaf-d629-4039-a2b2-3458120ccfe0
OT SLIM 100/220-240/24	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	4b0d9de4-1a2c-4f72-8514-c576c7802634

Product family datasheet

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT SLIM 160/220-240/24	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	b0b0181c-1270-41a0-bd2f-b8a11f69d6c8
OT SLIM 250/220-240/24	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e86773f0-b8cd-41bd-bc36-c60e532902af
OT 6/200...240/24 CE	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	3d0fceb4-e41c-4c3b-b850-cd1c425259ab
OT 20/220...240/24	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	bbe50d75-fd0a-4476-b0c2-34d70d2132b2

1) at 230 V, 50 Hz

2) at steady state

3) Maximum 56 days/year at 85 %

4) Permitted voltage range

5) Minimum

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

7) At 240 V_{AC}

8) ±0.8 V

9) Partial load 0.9...6 W

10) At T_{case} = 60°C at T_c point / 10% failure rate

11) With OPTOTRONIC dimmers

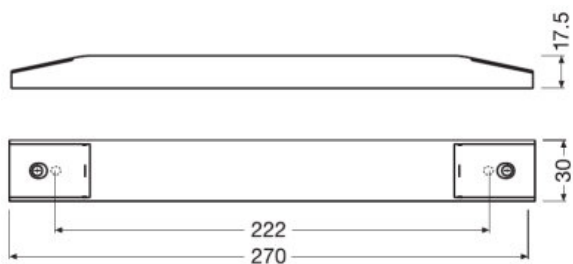
12) Secondary switching not allowed

13) Maximum

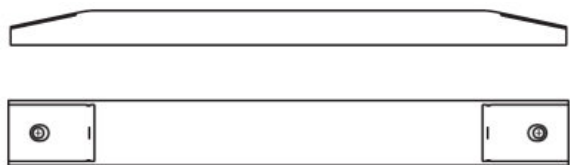
14) ±1.0 V

15) Partial load 0.5...20 W

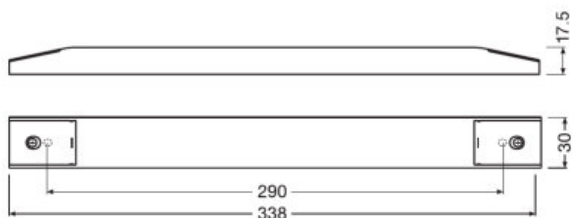
Product family datasheet



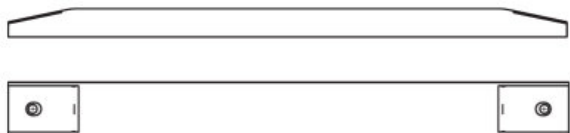
OT SLIM 30



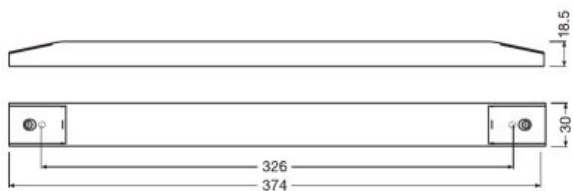
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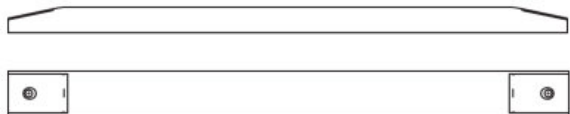
OT SLIM 60



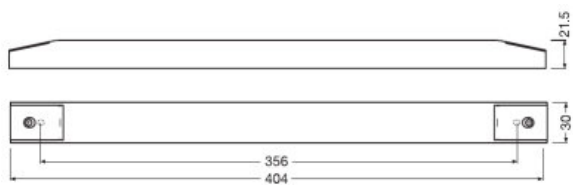
OT SLIM 60



OT SLIM 100



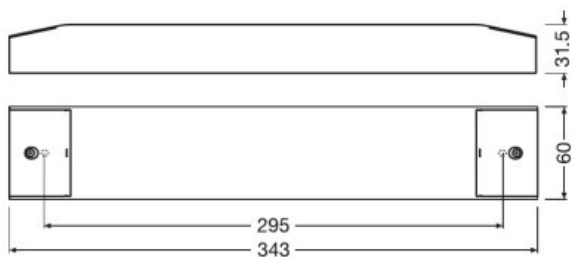
OT SLIM 100



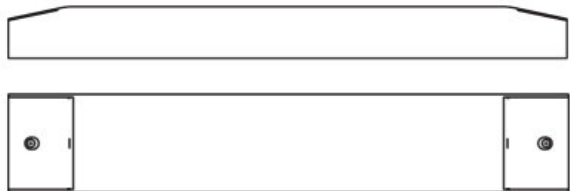
OT SLIM 160



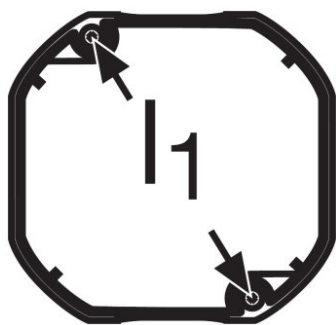
OT SLIM 160



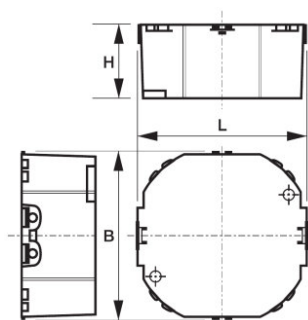
OT SLIM 250



OT SLIM 250

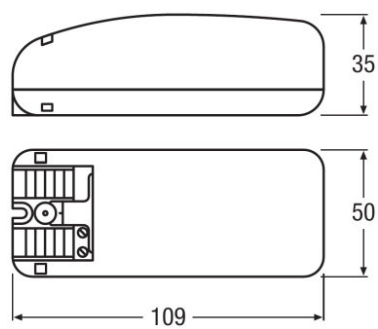


330712_OTROTRONIC OT 6200-24010



323601_OPTOTRONIC OT 6200-24010

Product family datasheet



340540_OT 20220-24024

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

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	-

Download Data

File

Product family datasheet

	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 60 220-240 24 Technical Datasheet (EN)
	CAD data OT SLIM 60 STEP 290420
	Product Datasheet OT SLIM 100 220-240 24 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 160 220-240 24 Technical Datasheet (EN)
	CAD data OT SLIM 160 STEP 290420
	Product Datasheet OT SLIM 250 220-240 24 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 161221
	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

Product family datasheet

	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 – OT 20220-24024
	CAD data 3-dim OT 20 220-240 24V Indoor-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
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	350 mm x 192 mm x 145 mm	9.74 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

Product family datasheet

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.

Disclaimer

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