

# Product family datasheet

## SubstiTUBE Value

**Economic LED tubes for electromagnetic control gears (CCG)**



- General illumination within ambient temperatures from -20...+45 °C Corridors, stairways, parking garages Industry Warehouses Cooling and storage rooms Warehouses Domestic applications Supermarkets and department stores

- No bending thanks to glass tube Energy savings of up to 68 % (compared to T8 fluorescent lamp on CCG) Quick, simple and safe replacement without rewiring Instant-on light, therefore ideally suitable in combination with sensor technology Very high resistance to switching loads Also suitable for operation at low temperatures



Technical data

Product description	Electrical data						
	Claimed equiv. conventional lamp power	Nominal current	Nominal voltage	Nominal wattage	Max. lamp no. on circuit break. 16 A (B)	Max. lamp no. on circuit break. 10 A (B)	Operating frequency
ST8V-EM 7.3 W/840 600 mm	18 W	0.035 A	220...240 V	7.30 W	320	200	50...60 Hz
7.3 W/865 600 mm	18 W	35 mA					50...60 Hz
16.4 W/840 1200 mm	36 W	75 mA					50...60 Hz
16.4 W/865 1200 mm	36 W	75 mA					50...60 Hz
ST8V-EM 20 W/840 1500 mm	58 W	0.095 A	220...240 V	20.00 W	117	73	50...60 Hz
20 W/865 1500 mm	58 W	95 mA					50...60 Hz

Product description	Rated wattage	Photometrical data					
		Nominal luminous flux	Light color (designation)	Color temperature	Color rendering index Ra	Lumen main.fact.at end of nom.life time	Rated luminous flux
ST8V-EM 7.3 W/840 600 mm	7.30 W	800 lm	Cool White	4000 K	≥80	0.70	800 lm
7.3 W/865 600 mm			Cool Daylight				
16.4 W/840 1200 mm			Cool White				
16.4 W/865 1200 mm			Cool Daylight				
ST8V-EM 20 W/840 1500 mm	20.00 W	2200 lm	Cool White	4000 K	≥80	0.70	2200 lm
20 W/865 1500 mm			Cool Daylight				

Product description	Standard deviation of color matching	Light technical data		Dimensions & weight			
		Starting time	Beam angle	Product weight	Overall length	Outer bulb	Diameter
ST8V-EM 7.3 W/840 600 mm	≤6 sdc	< 0.5 s	190 °	100.00 g	603.0 mm	T8	
7.3 W/865 600 mm			190 °	100.00 g	603.00 mm		
16.4 W/840 1200 mm			190 °	190.00 g	1212.00 mm		
16.4 W/865 1200 mm			190 °	190.00 g	1212.00 mm		

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Product description	Standard deviation of color matching	Light technical data		Dimensions & weight			
		Starting time	Beam angle	Product weight	Overall length	Outer bulb	Diameter
ST8V-EM 20 W/840 1500 mm	≤6 sdcn	< 0.5 s	190 °	230.00 g	1513 mm	T8	26.7 mm
20 W/865 1500 mm			190 °	230.00 g	1513.00 mm		

Product description	Length	Temperatures & operating conditions	Lifespan				Additional product data
		Ambient temperature range	Number of switching cycles	Lumen maintenance at end of service life	Rated lamp life time	Nominal lamp life time	Base (standard designation)
ST8V-EM 7.3 W/840 600 mm		-20...+45 °C	200000	0.70	30000 h	30000 h	G13
7.3 W/865 600 mm		-20...+45 °C		0.7			
16.4 W/840 1200 mm		-20...+45 °C		0.7			
16.4 W/865 1200 mm		-20...+45 °C		0.7			
ST8V-EM 20 W/840 1500 mm	1513 mm	-20...+45 °C	200000	0.70	30000 h	30000 h	G13
20 W/865 1500 mm		-20...+45 °C		0.7			

Product description	Predecessor EAN	Successor EAN	Mercury-free	Capabilities	Certificates & standards		
				Dimmable	Type of protection	Energy consumption	Energy efficiency class
ST8V-EM 7.3 W/840 600 mm	4058075454460, 4058075024632	4058075611634	Yes	No	IP20	8 kWh/1000h	E
7.3 W/865 600 mm	4058075454484, 4058075024656	4058075611658	Yes			8.00 kWh/1000h	E
16.4 W/840 1200 mm	4058075454521, 4058075024694	4058075611696	Yes			17.00 kWh/1000h	E
16.4 W/865 1200 mm	4058075454545, 4058075024717	4058075611719	Yes			17.00 kWh/1000h	E
ST8V-EM 20 W/840 1500 mm	4058075454583, 4058075024755	4058075611757	Yes	No	IP20	20 kWh/1000h	E
20 W/865 1500 mm	4058075454606, 4058075024779	4058075611771	Yes			20.00 kWh/1000h	E

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Product description	Country specific categorizations	Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)		
	Order reference	Date of Declaration	Primary Article Identifier	Declaration No. in SCIP database
ST8V-EM 7.3 W/840 600 mm	ST8V-0.6M 7,3W/	18-04-2022	4058075454460   4058075611634	In work
7.3 W/865 600 mm		13-07-2022	4058075454484   4058075611658	In work
16.4 W/840 1200 mm		18-04-2022	4058075454521   4058075611696	In work
16.4 W/865 1200 mm		18-04-2022	4058075454545   4058075611719	In work
ST8V-EM 20 W/840 1500 mm	ST8V-1.5M 20W/8	18-04-2022	4058075454583   4058075611757	In work
20 W/865 1500 mm		18-04-2022	4058075454606   4058075611771	In work

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ST8V-EM 7.3 W/840 600 mm, 16.4  
W/840 1200 mm, 16.4 W/865 1200  
mm, ST8V-EM 20 W/840 1500 mm, 20  
W/865 1500 mm

7.3 W/865 600 mm

### Equipment / Accessories

- Suitable for operation with low-loss and conventional control gears

### Application advice

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

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Ecodesign regulation information:

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
4058075611634	ST8V-EM 7.3 W/840 600 mm	Shipping carton box 10	690 mm x 210 mm x 115 mm	16.66 dm <sup>3</sup>	1649.00 g
4058075611658	7.3 W/865 600 mm	Shipping carton box 10	690 mm x 210 mm x 115 mm	16.66 dm <sup>3</sup>	1649.00 g
4058075611696	16.4 W/840 1200 mm	Shipping carton box 10	1290 mm x 210 mm x 105 mm	28.44 dm <sup>3</sup>	2796.00 g
4058075611719	16.4 W/865 1200 mm	Shipping carton box 10	1290 mm x 210 mm x 105 mm	28.44 dm <sup>3</sup>	2796.00 g
4058075611757	ST8V-EM 20 W/840 1500 mm	Shipping carton box 10	1590 mm x 170 mm x 95 mm	25.68 dm <sup>3</sup>	3386.00 g
4058075611771	20 W/865 1500 mm	Shipping carton box 10	1590 mm x 210 mm x 115 mm	38.40 dm <sup>3</sup>	3477.00 g
4058075611771	20 W/865 1500 mm	Shipping carton box 10	1590 mm x 170 mm x 95 mm	25.68 dm <sup>3</sup>	3386.00 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.

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### Disclaimer

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

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