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# Product family datasheet

## SubstiTUBE Value

### Economic LED tubes for electromagnetic control gears

- 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



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### Technical data

Product description	Electrical data						
	Rated wattage	Operating frequency	Max. lamp no. on circuit break. 16 A (B)	Max. lamp no. on circuit break. 10 A (B)	Claimed equiv. conventional lamp power	Nominal wattage	Nominal voltage
ST8V-EM 7.3 W/830 600 mm	7.30 W	50...60 Hz	320	200	18 W	7.30 W	220...240 V
ST8V-EM 7.3 W/840 600 mm	7.30 W	50...60 Hz	320	200	18 W	7.30 W	220...240 V
ST8V-EM 7.3 W/865 600 mm	7.30 W	50...60 Hz	320	200	18 W	7.30 W	220...240 V
ST8V-EM 16.4 W/830 1200 mm	16.40 W	50...60 Hz	149	93	36 W	16.40 W	220...240 V
ST8V-EM 16.4 W/840 1200 mm	16.40 W	50...60 Hz	149	93	36 W	16.40 W	220...240 V
ST8V-EM 16.4 W/865 1200 mm	16.40 W	50...60 Hz	149	93	36 W	16.40 W	220...240 V
ST8V-EM 20 W/830 1500 mm	20.00 W	50...60 Hz	117	73	58 W	20.00 W	220...240 V
ST8V-EM 20 W/840 1500 mm	20.00 W	50...60 Hz	117	73	58 W	20.00 W	220...240 V
ST8V-EM 20 W/865 1500 mm	20.00 W	50...60 Hz	117	73	58 W	20.00 W	220...240 V

Product description	Nominal current	Photometrical data					
		Standard deviation of color matching	Rated luminous flux	Nominal luminous flux	Color temperature	Light color (designation)	Lumen main.fact.at end of nom.life time
ST8V-EM 7.3 W/830 600 mm	0.035 A	≤6 sdc	720 lm	720 lm	3000 K	Warm White	0.70
ST8V-EM 7.3 W/840 600 mm	0.035 A	≤6 sdc	800 lm	800 lm	4000 K	Cool White	0.70
ST8V-EM 7.3 W/865 600 mm	0.035 A	≤6 sdc	800 lm	800 lm	6500 K	Cool Daylight	0.70
ST8V-EM 16.4 W/830 1200 mm	0.075 A	≤6 sdc	1620 lm	1620 lm	3000 K	Warm White	0.70
ST8V-EM 16.4 W/840 1200 mm	0.075 A	≤6 sdc	1800 lm	1800 lm	4000 K	Cool White	0.70
ST8V-EM 16.4 W/865 1200 mm	0.075 A	≤6 sdc	1800 lm	1800 lm	6500 K	Cool Daylight	0.70
ST8V-EM 20 W/830 1500 mm	0.095 A	≤6 sdc	1980 lm	1980 lm	3000 K	Warm White	0.70
ST8V-EM 20 W/840 1500 mm	0.095 A	≤6 sdc	2200 lm	2200 lm	4000 K	Cool White	0.70
ST8V-EM 20 W/865 1500 mm	0.095 A	≤6 sdc	2200 lm	2200 lm	6500 K	Cool Daylight	0.70

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Product description	Color rendering index Ra	Light technical data		Dimensions & weight			
		Beam angle	Starting time	Product weight	Outer bulb	Overall length	Diameter
ST8V-EM 7.3 W/830 600 mm	≥80	190 °	< 0.5 s	100.00 g	T8	603.0 mm	26.7 mm
ST8V-EM 7.3 W/840 600 mm	≥80	190 °	< 0.5 s	100.00 g	T8	603.0 mm	26.7 mm
ST8V-EM 7.3 W/865 600 mm	≥80	190 °	< 0.5 s	100.00 g	T8	603.0 mm	26.7 mm
ST8V-EM 16.4 W/830 1200 mm	≥80	190 °	< 0.5 s	190.00 g	T8	1212 mm	26.7 mm
ST8V-EM 16.4 W/840 1200 mm	≥80	190 °	< 0.5 s	190.00 g	T8	1212 mm	26.7 mm
ST8V-EM 16.4 W/865 1200 mm	≥80	190 °	< 0.5 s	190.00 g	T8	1212 mm	26.7 mm
ST8V-EM 20 W/830 1500 mm	≥80	190 °	< 0.5 s	230.00 g	T8	1513 mm	26.7 mm
ST8V-EM 20 W/840 1500 mm	≥80	190 °	< 0.5 s	230.00 g	T8	1513 mm	26.7 mm
ST8V-EM 20 W/865 1500 mm	≥80	190 °	< 0.5 s	230.00 g	T8	1513 mm	26.7 mm

Product description	Length	Temperatures & operating conditions	Lifespan				Additional product data
		Ambient temperature range	Nominal lamp life time	Rated lamp life time	Lumen maintenance at end of service life	Number of switching cycles	Mercury-free
ST8V-EM 7.3 W/830 600 mm	603.0 mm	-20...+45 °C	30000 h	30000 h	0.70	200000	Yes
ST8V-EM 7.3 W/840 600 mm	603.0 mm	-20...+45 °C	30000 h	30000 h	0.70	200000	Yes
ST8V-EM 7.3 W/865 600 mm	603.0 mm	-20...+45 °C	30000 h	30000 h	0.70	200000	Yes
ST8V-EM 16.4 W/830 1200 mm	1212 mm	-20...+45 °C	30000 h	30000 h	0.70	200000	Yes
ST8V-EM 16.4 W/840 1200 mm	1212 mm	-20...+45 °C	30000 h	30000 h	0.70	200000	Yes
ST8V-EM 16.4 W/865 1200 mm	1212 mm	-20...+45 °C	30000 h	30000 h	0.70	200000	Yes
ST8V-EM 20 W/830 1500 mm	1513 mm	-20...+45 °C	30000 h	30000 h	0.70	200000	Yes
ST8V-EM 20 W/840 1500 mm	1513 mm	-20...+45 °C	30000 h	30000 h	0.70	200000	Yes
ST8V-EM 20 W/865 1500 mm	1513 mm	-20...+45 °C	30000 h	30000 h	0.70	200000	Yes

## Product family datasheet

Product description	Base (standard designation)	Capabilities	Certificates & standards			Country specific categorizations
		Dimmable	Energy efficiency class	Energy consumption	Type of protection	Order reference
ST8V-EM 7.3 W/830 600 mm	G13	No	A+	8 kWh/1000h	IP20	ST8V-0.6M 7,3W/
ST8V-EM 7.3 W/840 600 mm	G13	No	A+	8 kWh/1000h	IP20	ST8V-0.6M 7,3W/
ST8V-EM 7.3 W/865 600 mm	G13	No	A+	8 kWh/1000h	IP20	ST8V-0.6M 7,3W/
ST8V-EM 16.4 W/830 1200 mm	G13	No	A+	17 kWh/1000h	IP20	ST8V-1.2M 16,4W
ST8V-EM 16.4 W/840 1200 mm	G13	No	A+	17 kWh/1000h	IP20	ST8V-1.2M 16,4W
ST8V-EM 16.4 W/865 1200 mm	G13	No	A+	17 kWh/1000h	IP20	ST8V-1.2M 16,4W
ST8V-EM 20 W/830 1500 mm	G13	No	A+	20 kWh/1000h	IP20	ST8V-1.5M 20W/8
ST8V-EM 20 W/840 1500 mm	G13	No	A+	20 kWh/1000h	IP20	ST8V-1.5M 20W/8
ST8V-EM 20 W/865 1500 mm	G13	No	A+	20 kWh/1000h	IP20	ST8V-1.5M 20W/8

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— ST8V-EM 7.3 W/830 600 mm, ST8V-EM 7.3 W/840 600 mm, ST8V-EM 7.3 W/865 600 mm, ST8V-EM 16.4 W/830 1200 mm, ST8V-EM 16.4 W/840 1200 mm, ST8V-EM 16.4 W/865 1200 mm, ST8V-EM 20 W/830 1500 mm, ST8V-EM 20 W/840 1500 mm, ST8V-EM 20 W/865 1500 mm

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### Application advice

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

## Product family datasheet

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4058075454446	ST8V-EM 7.3 W/830 600 mm	Shipping carton box 10	690 mm x 210 mm x 115 mm	16.66 dm <sup>3</sup>	1652.00 g
4058075454460	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>	1652.00 g
4058075454484	ST8V-EM 7.3 W/865 600 mm	Shipping carton box 10	690 mm x 210 mm x 115 mm	16.66 dm <sup>3</sup>	1652.00 g
4058075454507	ST8V-EM 16.4 W/830 1200 mm	Shipping carton box 10	1290 mm x 210 mm x 105 mm	28.44 dm <sup>3</sup>	2796.00 g
4058075454521	ST8V-EM 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
4058075454545	ST8V-EM 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
4058075454569	ST8V-EM 20 W/830 1500 mm	Shipping carton box 10	1590 mm x 210 mm x 105 mm	35.06 dm <sup>3</sup>	3348.00 g
4058075454583	ST8V-EM 20 W/840 1500 mm	Shipping carton box 10	1590 mm x 210 mm x 105 mm	35.06 dm <sup>3</sup>	3348.00 g
4058075454606	ST8V-EM 20 W/865 1500 mm	Shipping carton box 10	1590 mm x 210 mm x 105 mm	35.06 dm <sup>3</sup>	3348.00 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.

### Disclaimer

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

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