

Product family datasheet

SubstiTUBE Advanced

High performance LED tubes for electromagnetic control gears



Product family datasheet

Technical data

Product description	Electrical data						
	Nominal current	Claimed equiv. conventional lamp power	Operating frequency	Max. lamp no. on circuit break. 10 A (B)	Max. lamp no. on circuit break. 16 A (B)	Nominal voltage	Nominal wattage
ST8A-EM 7.3 W/840 600 mm	36 mA	18 W	50...60 Hz				
ST8A-EM 7.3 W/865 600 mm	36 mA	18 W	50...60 Hz				
ST8A-EM 14 W/840 1200 mm	64 mA	36 W	50...60 Hz				
ST8A-EM 14 W/865 1200 mm	64 mA	36 W	50...60 Hz				
ST8A-EM 20.6 W/840 1500 mm	0.094 A	58 W	50...60 Hz	48	76	220...240 V	20.60 W
ST8A-EM 20.6 W/865 1500 mm	94 mA	58 W	50...60 Hz				

Product description	Rated wattage	Photometrical data					
		Light color (designation)	Lumen main.fact.at end of nom.life time	Rated luminous flux	Standard deviation of color matching	Color temperature	Color rendering index Ra
ST8A-EM 7.3 W/840 600 mm		Cool White					
ST8A-EM 7.3 W/865 600 mm		Cool Daylight					
ST8A-EM 14 W/840 1200 mm		Cool White					
ST8A-EM 14 W/865 1200 mm		Cool Daylight					
ST8A-EM 20.6 W/840 1500 mm	20.60 W	Cool White	0.70	3100 lm	≤5 sdcn	4000 K	83
ST8A-EM 20.6 W/865 1500 mm		Cool Daylight					

Product description	Nominal luminous flux	Light technical data		Dimensions & weight			
		Beam angle	Starting time	Overall length	Product weight	Diameter	Outer bulb
ST8A-EM 7.3 W/840 600 mm		190 °		603.00 mm	100.00 g		
ST8A-EM 7.3 W/865 600 mm		190 °		603.00 mm	100.00 g		
ST8A-EM 14 W/840 1200 mm		190 °		1212.00 mm	190.00 g		
ST8A-EM 14 W/865 1200 mm		190 °		1212.00 mm	190.00 g		

Product family datasheet

Product description	Nominal luminous flux	Light technical data		Dimensions & weight			
		Beam angle	Starting time	Overall length	Product weight	Diameter	Outer bulb
ST8A-EM 20.6 W/840 1500 mm	3100 lm	190 °	< 0.5 s	1513 mm	225.00 g	26.7 mm	T8
ST8A-EM 20.6 W/865 1500 mm		190 °		1513.00 mm	225.00 g		

Product description	Length	Temperatures & operating conditions	Lifespan				Additional product data
		Ambient temperature range	Lumen maintenance at end of service life	Number of switching cycles	Rated lamp life time	Nominal lamp life time	Successor EAN
ST8A-EM 7.3 W/840 600 mm		-25...+50 °C	0.7				4058075611795
ST8A-EM 7.3 W/865 600 mm		-25...+50 °C	0.7				4058075611818
ST8A-EM 14 W/840 1200 mm		-20...+50 °C	0.7				4058075611832
ST8A-EM 14 W/865 1200 mm		-20...+50 °C	0.7				4058075611856
ST8A-EM 20.6 W/840 1500 mm	1513 mm	-20...+50 °C	0.70	200000	50000 h	50000 h	4058075611870
ST8A-EM 20.6 W/865 1500 mm		-20...+50 °C	0.7				4058075611894

Product description	Mercury-free	Predecessor EAN	Base (standard designation)	Certificates & standards			Environmental information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)
				Energy consumption	Energy efficiency class	Type of protection	Date of Declaration
ST8A-EM 7.3 W/840 600 mm	Yes	4058075136410, 4058075454743		8.00 kWh/1000h	D		01-07-2022
ST8A-EM 7.3 W/865 600 mm	Yes	4058075136434, 4058075454767		8.00 kWh/1000h	D		18-04-2022
ST8A-EM 14 W/840 1200 mm	Yes	4058075136496, 4058075454781		14.00 kWh/1000h	D		18-04-2022

Product family datasheet

				Certificates & standards			Environmental information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)
Product description	Mercury-free	Predecessor EAN	Base (standard designation)	Energy consumption	Energy efficiency class	Type of protection	Date of Declaration
ST8A-EM 14 W/865 1200 mm	Yes	4058075136519, 4058075454804		14.00 kWh/1000h	D		18-04-2022
ST8A-EM 20.6 W/840 1500 mm	Yes	4058075136533, 4058075454828	G13	21 kWh/1000h	D	IP20	18-04-2022
ST8A-EM 20.6 W/865 1500 mm	Yes	4058075136557, 4058075454842		21.00 kWh/1000h	D		18-04-2022

Product description	Primary Article Identifier	Declaration No. in SCIP database
ST8A-EM 7.3 W/840 600 mm	4058075454743 4058075611795	In work
ST8A-EM 7.3 W/865 600 mm	4058075454767 4058075611818	In work
ST8A-EM 14 W/840 1200 mm	4058075454781 4058075611832	In work
ST8A-EM 14 W/865 1200 mm	4058075454804 4058075611856	In work
ST8A-EM 20.6 W/840 1500 mm	4058075454828 4058075611870	In work
ST8A-EM 20.6 W/865 1500 mm	4058075454842 4058075611894	In work

Product family datasheet



— ST8A-EM 7.3 W/840 600 mm, ST8A-EM 7.3 W/865 600 mm, ST8A-EM 14 W/840 1200 mm, ST8A-EM 14 W/865 1200 mm, ST8A-EM 20.6 W/840 1500 mm, ST8A-EM 20.6 W/865 1500 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.

Product family datasheet

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
4058075611795	ST8A-EM 7.3 W/840 600 mm	Shipping carton box 10	742 mm x 210 mm x 115 mm	17.92 dm ³	1599.00 g
4058075611818	ST8A-EM 7.3 W/865 600 mm	Shipping carton box 10	742 mm x 210 mm x 115 mm	17.92 dm ³	1599.00 g
4058075611832	ST8A-EM 14 W/840 1200 mm	Shipping carton box 10	1352 mm x 210 mm x 115 mm	32.65 dm ³	2879.00 g
4058075611856	ST8A-EM 14 W/865 1200 mm	Shipping carton box 10	1352 mm x 210 mm x 115 mm	32.65 dm ³	2879.00 g
4058075611856	ST8A-EM 14 W/865 1200 mm	Shipping carton box 10	1335 mm x 180 mm x 95 mm	22.83 dm ³	2725.00 g
4058075611870	ST8A-EM 20.6 W/840 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm ³	3430.00 g
4058075611894	ST8A-EM 20.6 W/865 1500 mm	Shipping carton box 10	1652 mm x 210 mm x 115 mm	39.90 dm ³	3430.00 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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References / Links

For current information see

- ▶ www.osram.com/substitute

Disclaimer

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

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