SubstiTUBE Advanced HF

High performance LED tubes for electronic high frequency control gears



Areas of application

- General illumination within ambient temperatures from −20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

Product benefits

- Quick, simple and safe replacement without rewiring
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Maximum resistance to switching loads
- Correct operation even at low temperatures
- Extremely break resistant thanks to aluminum heat sink and polycarbonate cover

Product features

- Bright, robust and durable
- Uniform illumination
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Integrated ECG with high power factor



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Technical data

	Electrical data						Photometrical data			
Product description	**Rated luminous flux**	**Nominal wattage**	**Nominal voltage**	**Nominal current**	**Type of current**	**Number of switching cycles**	**Light color (designation)**	**Color temper-ature**	**Nominal luminous flux**	**Color render-ing index Ra**
ST8A-HF 8.9 W/840 600 mm	1100 lm	8.90 W	32.0 V	0.34 A	AC	200000	Cool White	4000 K	1100 lm	>80
ST8A-HF 18.4 W/830 1200 mm	2070 lm	18.40 W	63.0 V	0.35 A	AC	200000	Warm White	3000 K	2300 lm	>80
ST8A-HF 18.4 W/840 1200 mm	2300 lm	18.40 W	63.0 V	0.35 A	AC	200000	Cool White	4000 K	2300 lm	>80
ST8A-HF 18.4 W/865 1200 mm	2300 lm	18.40 W	63.0 V	0.35 A	AC	200000	Cool Daylight	6500 K	2300 lm	>80
ST8A-HF 27 W/830 1500 mm	2950 lm	27.00 W	67.0 V	0.48 A	AC	200000	Warm White	3000 K	3400 lm	>80
ST8A-HF 27 W/840 1500 mm	3400 lm	27.00 W	67.0 V	0.48 A	AC	200000	Cool White	4000 K	3400 lm	>80
ST8A-HF 27 W/865 1500 mm	3300 lm	27.00 W	67.0 V	0.48 A	AC	200000	Cool Daylight	6500 K	3400 lm	>80

	Light technical data			Dimensions & weight				Temperatures & operating conditions	
Product description	**Rated beam angle (half peak value)**	**Warm-up time (60 %)**	**Starting time**	**Overall length**	**Tube diameter**	**Base diameter**	**Product weight**	**Ambient temperature range**	**Temperature range in operation**
ST8A-HF 8.9 W/840 600 mm	160.00 °	< 2.00 s	< 0.5 s	590.0 mm	27.5 mm	25.7 mm	94.00 g	-20…+50 °C	-20…50 °C
ST8A-HF 18.4 W/830 1200 mm	160.00 °	< 2.00 s	< 0.5 s	1200 mm	27.5 mm	25.7 mm	232.00 g	-20…+50 °C	-20…50 °C
ST8A-HF 18.4 W/840 1200 mm	160.00 °	< 2.00 s	< 0.5 s	1200 mm	27.5 mm	25.7 mm	232.00 g	-20…+50 °C	-20…50 °C
ST8A-HF 18.4 W/865 1200 mm	160.00 °	< 2.00 s	< 0.5 s	1200 mm	27.5 mm	25.7 mm	232.00 g	-20…+50 °C	-20…50 °C
ST8A-HF 27 W/830 1500 mm	150.00 °	< 2.00 s	< 0.5 s	1500 mm	27.5 mm	25.7 mm	289.00 g	-20…+50 °C	-20…50 °C
ST8A-HF 27 W/840 1500 mm	150.00 °	< 2.00 s	< 0.5 s	1500 mm	27.5 mm	25.7 mm	289.00 g	-20…+50 °C	-20…50 °C
ST8A-HF 27 W/865 1500 mm	150.00 °	< 2.00 s	< 0.5 s	1500 mm	27.5 mm	25.7 mm	289.00 g	-20…+50 °C	-20…50 °C

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	Lifespan		Additional product data		Capabilities	Certificates & standards		Country specific categorizations
Product description	**Nominal lamp life time**	**Lumen main. fact. at end of nom. life time**	**Base (standard designation)**	**Mercury-free**	**Dimmable**	**Type of protection**	**Energy efficiency class**	**ILCOS**
ST8A-HF 8.9 W/840 600 mm	50000 h	0.70	G13	Yes	No	IP20	A+	DR-8,9/840-G13-26/590
ST8A-HF 18.4 W/830 1200 mm	50000 h	0.70	G13	Yes	No	IP20	A+	DR-18,4/830-G13-26/1200
ST8A-HF 18.4 W/840 1200 mm	50000 h	0.70	G13	Yes	No	IP20	A+	DR-18,4/840-G13-26/1200
ST8A-HF 18.4 W/865 1200 mm	50000 h	0.70	G13	Yes	No	IP20	A+	DR-18,4/865-G13-26/1200
ST8A-HF 27 W/830 1500 mm	50000 h	0.70	G13	Yes	No	IP20	A+	DR-27/830-G13-26/1500
ST8A-HF 27 W/840 1500 mm	50000 h	0.70	G13	Yes	No	IP20	A+	DR-27/840-G13-26/1500
ST8A-HF 27 W/865 1500 mm	50000 h	0.70	G13	Yes	No	IP20	A+	DR-27/865-G13-26/1500

	Logistical data
Product description	**Temperature range at storage**
ST8A-HF 8.9 W/840 600 mm	-20…80 °C
ST8A-HF 18.4 W/830 1200 mm	-20…80 °C
ST8A-HF 18.4 W/840 1200 mm	-20…80 °C
ST8A-HF 18.4 W/865 1200 mm	-20…80 °C
ST8A-HF 27 W/830 1500 mm	-20…80 °C
ST8A-HF 27 W/840 1500 mm	-20…80 °C
ST8A-HF 27 W/865 1500 mm	-20…80 °C

Application advice

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

Logistical Data

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Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899943018	ST8A-HF 8.9 W/840 600 mm	Shipping carton box 25	726 mm x 166 mm x 182 mm	21.93 dm^3	3814.00 g
4052899943032	ST8A-HF 18.4 W/830 1200 mm	Shipping carton box 25	1335 mm x 166 mm x 182 mm	40.33 dm^3	8283.00 g
4052899943049	ST8A-HF 18.4 W/840 1200 mm	Shipping carton box 25	1335 mm x 166 mm x 182 mm	40.33 dm^3	8630.00 g
4052899943056	ST8A-HF 18.4 W/865 1200 mm	Shipping carton box 25	1335 mm x 166 mm x 182 mm	40.33 dm^3	8283.00 g
4052899943063	ST8A-HF 27 W/830 1500 mm	Shipping carton box 25	1637 mm x 166 mm x 182 mm	49.46 dm^3	10416.00 g
4052899943070	ST8A-HF 27 W/840 1500 mm	Shipping carton box 25	1637 mm x 166 mm x 182 mm	49.46 dm^3	10660.00 g
4052899943087	ST8A-HF 27 W/865 1500 mm	Shipping carton box 25	1637 mm x 166 mm x 182 mm	49.46 dm^3	10470.00 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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