



# Product sheet

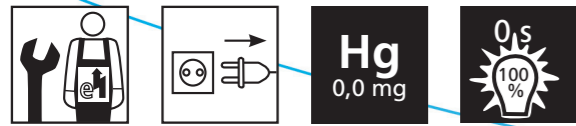
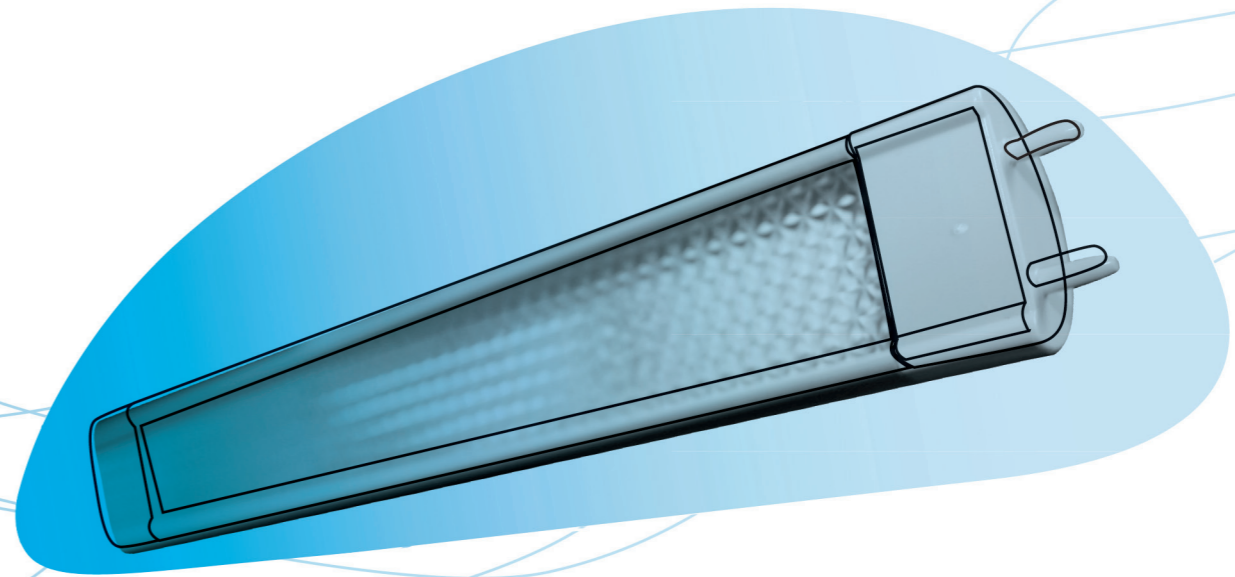
## High Power T8 LED tube

Energy-efficient replacement for conventional fluorescent tubes  
T8/600-Dxx, T8/1200-Dxx, T8/1500-Dxx types

The High Power T8 LED tube is suitable for the following applications:

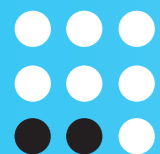
- Replacement for fluorescent tubes
- Striplighting systems
- Panelled ceiling lights
- Shelf lighting
- Suspended lamps
- Cold storage rooms, refrigerated display cases
- Underground car parks, elevated car parks, etc.

*...delivers significant reductions in energy and maintenance costs.*

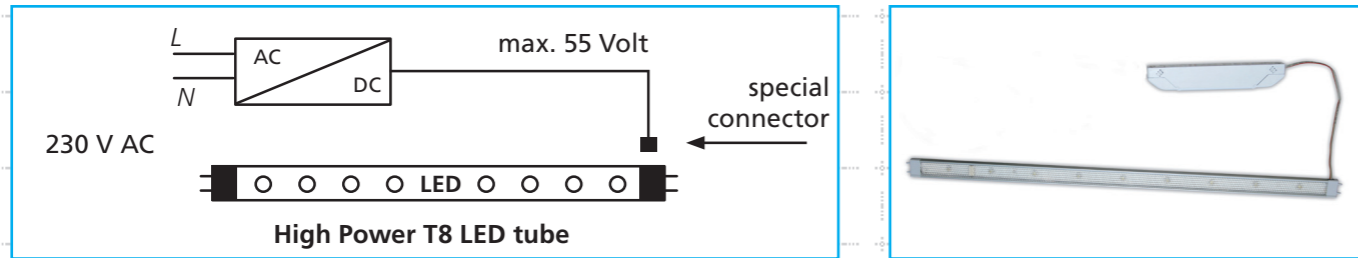


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The **High Power T8 LED tube** is a light fitting that uses the latest LED technology. From now on, you will be able to implement your planned lighting arrangements in an environmentally friendly manner with a high degree of energy efficiency thanks to this product's excellent reliability and long service life. With the **High Power T8 LED tube**, you will be able to replace the conventional fluorescent tubes that you have used up to now with an energy-efficient light fitting in a simple manner. When using your new **High Power T8 LED tube**, please observe the following instructions and other applicable installation regulations to ensure a long service life and safe operation for this product.



# Operation



The **High Power T8 LED tube** is available in various models. An LED driver is responsible for the power supply. In contrast with conventional fluorescent tubes, there is no delay in switching on these lights. Brightness is thus available immediately when the unit is switched on. The start-up time that is familiar from conventional fluorescent tubes is avoided here, meaning that instantaneous lighting is provided. The light emitted is flicker-free and is thus also suitable for people who are sensitive to conventional fluorescent tubes. The **High Power T8 LED tube** is not affected by short switching intervals.

Whereas standard fluorescent tubes are only economical in continuous operation, the **High Power T8 LED tube** is also suitable for applications with frequent switching. The power consumption is 12 W for a 600-series LED tube, 25 W for a 1200-series LED tube and 29 W for a 1500-series LED tube.

# Technical Data High Power T8 LED tube

Model/parameter		T8 600-Dxx	T8 1200-Dxx	T8 1500-Dxx
Colour temperature	D27	Warm white 2700K		
	D40	Neutral white 4000K		
	D50	Cold white 5000K		
	D65	Day white 6500K		
LED type	High Power Philips Luxeon Rebel			
Service life	> 50.000 h			
Amount of LED	10	20	24	
Colour rendering index	>80 CRI			
Luminous flux	D27	650Lm	1280Lm	1550Lm
	D40	900Lm	1800Lm	2160Lm
	D50	950Lm	1900Lm	2280Lm
	D65	1000Lm	2000Lm	2400Lm
Power consumption	350mA 10W	700mA 20W	700mA 24W	
Power supply unit / LED tube	12W	25W	29W	
Ambient temperature	-25°C bis +50°C			
Storage temperature	0°C bis 40°C			
Dimensions (L x W x H)	600mm x 26mm x 20mm	1200mm x 26mm x 20mm	1500mm x 26mm x 20mm	
Weight	190g	380g	485g	
Base	G13			
Diagram of LED tube:				

# Technical Data Power LED power supply

Model/parameter	CL700S-240-A/B/C/
Mains supply voltage range	100 bis 277V AC RMS
Mains supply frequency	47 to 63Hz
Power factor at full load	> 0,95 (typical 0,98)
Efficiency at full load	88% typical
Mains surge protection	4kV common mode 2kV differential
Input-Output isolation	3,75kV AC RMS
Ambient temperature range	-25°C to 50°C
Max. Tc temperature	80°C
Humidity	95% max. non-condensing
Thermal trip	110°C self resetting
Max. output power	33W
Output current	350mA & 700mA
Accuracy	± 5%
LED string voltage	9V bis 48V
Enclosure	White polycarbonate UL94-V0 rated
Terminal blocks	Rising clamp 10mm input 5mm output pitch
Current ripple	10V output = 22%
	48V output = 7,5%
Wire size	0,5 bis 1,5mm <sup>2</sup>
Dimensions	179mm x 31mm x 31,5mm
Weight	120g
Diagram of power supply unit	
<b>General</b>	
Light properties	Flicker-free light compared to conventional fluorescent tubes; no UV or IR radiation, targeted light, beam angle of 120°, rotatable
Protection degree	IP 20
Energy classification	A
Warranty	3 years
Energy saving	up to 65%, immediate energy saving
Conformity	EN 61347-1, EN 61347-2-13, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61547, EN 55015, EN 62384, EN 50285, IEC/EN 62471-1 + IEC/TR 62471-2, CE-konform, RoHS-konform, WEEE-konform, ENEC zertifiziert, TÜV zertifiziert, Richtlinie 2006/95/EG, Richtlinie 2011/65/EU, Richtlinie 2009/125/EG