

Converters and Mounting Material

Converters for power LEDs



Type	Article no.	L x W x H (mm)	LED type	No. of LEDs
C100/150	5 1201 001	185 x 24 x 25		1 to 40
				1 to 60
C100/300	5 1201 011	205 x 30 x 27		1 to 80
				1 to 120
C100/990	5 1201 111	260 x 50 x 36		25 to 280
				50 to 450

Converters for standard LEDs



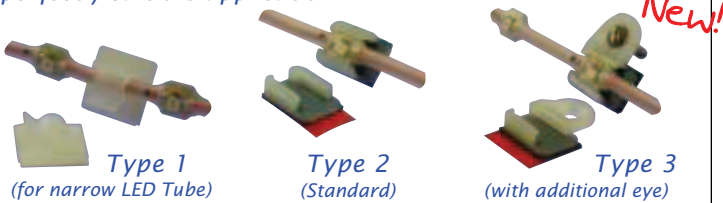
Standard converters (300 V)				
Type	Article no.	L x W x H (mm)	LED type	No. of LEDs
C25/300	5 2300 005	127 x 19 x 22		1 to 75
C40/300	5 2300 003	127 x 19 x 22		1 to 125

Standard converters (galv. separation)				
Type	Article no.	L x W x H (mm)	LED type	No. of LEDs
C25/300GT	5 2300 025	185 x 24 x 25		1 to 100
C40/300GT	5 2300 023	185 x 24 x 25		1 to 140

Tube holders

Self-adhesive plastic holders, specially designed for the LED Tube.

The special properties of the double-sided 3M adhesive tape perfectly suit the application.



Type	Article number	100 pieces per pack
Typ 1	50004002	
Typ 2	50004012	
Typ 3	50004022	

WAGO terminals



Connecting terminal
- Type: WAGO
- Clamp-type connector
- 2 poles, 1-2.5 mm²

For easy connection between - converter and LED Tube
- LED Tube and LED Tube

Type	Article number	100 pieces per pack
WAGO 273	50004006	

Insulating end cap

Protective cap for WAGO terminal providing additional insulation when using converters with 650 V or 990 V.



Type	Article number
Insulating end cap	50004008

Higher-voltage converters				
Type	Article no.	L x W x H (mm)	LED type	No. of LEDs
C25/990	5 2599 000	177 x 29 x 27		1 to 225
C40/650	5 4065 000	177 x 29 x 27		1 to 270

Dimmable converters (0-10 V)				
Type	Article no.	L x W x H (mm)	LED type	No. of LEDs
C25/300D	5 2300 015	177 x 29 x 27		1 to 75
C40/300D	5 2300 013	177 x 29 x 27		1 to 125

Max. number of LEDs per converter

Converter type	LED colour		
	White	Blue	Green
C25/300 127 x 19 x 22 mm	75	75	75
C25/300 D 177 x 29 x 27 mm	75	75	75
C25/300GT 185 x 24 x 25 mm	100	100	100
C25/990 177 x 29 x 27 mm	225	225	225

Converter type	LED colour		
	Red	Yellow	Amber
C40/300 127 x 19 x 22 mm	125	125	125
C40/300 D 177 x 29 x 27 mm	125	125	125
C40/300GT 185 x 24 x 25 mm	140	140	140
C40/650 177 x 29 x 27 mm	270	270	270

New for signage professionals: power LEDs for more brightness and better cost-efficiency

Intensive research and development work is going on worldwide to produce LEDs with increasing brightness, particularly for white light.

Currently, high-quality LEDs are available in the power range from 0.1 to 5 watts.

These extremely bright LEDs (1-5 W) are only of limited use for illuminating channel letters as they only allow an uneven distribution of the generated light onto the acrylic surfaces of the letter.

We have now found a good compromise between brightness and light distribution for bright channel letters:

Power LEDs (0.4 W / 100 mA)

The new power LEDs offer the following benefits to our customers:

1. Lower cost illumination and / or
2. Brighter illumination

Another good news is that even with the power LEDs the LED Tube remains as it is, i.e. the dimensions and properties remain the same, and the same tube holders and Wago terminals can be used.

Power LEDs can be used for channel letters with a letter height of approx. 40 cm and more. The letter depth should be approx. 10-12 cm.

Available power LED light colours:



LED illumination now becomes even more economically attractive with our new "large" converter

C 100/990.



The new converter to power the remarkable number of 280 power LEDs

Good reasons for using LEDs and the LED Tube

Reliability

The system has proved particularly successful in outdoor installations where moisture is always present. This is supported by the simple but robust design. Even the galvanic corrosion usually feared in 12 V systems cannot occur with the LED Tube.

Durability

LEDs are known for their long lifetime ranging between 30,000 and 100,000 hours depending on the colour and ambient temperature.

The self-heating of the LEDs, which is decisive for their lifetime, is very low in the LED Tube and superior to other low-voltage systems.

Energy consumption

LEDs can be used to build very energy-efficient illuminated advertising signs. The self-heating (loss) is low and the generated light is used effectively. No more light is generated than is actually needed, i.e. no energy is wasted.

Suitable for all letter sizes

The introduction of the power LEDs has made it possible to illuminate large "head-high" letters as well as small, intricate designs and letters with a single system: the LED Tube.

Bright and brilliant letters

High-quality LEDs from renowned manufacturers form the basis for a uniform and bright illumination of channel letters.

The LED Tube offers various possibilities to achieve an optimum brightness.

Uniform illumination

The uniformity of the illumination can be determined by the LED spacing and the tight or spacious installation of the LED Tube within the letter.

Thanks to its flexibility, the LED Tube can be routed through the letter in such a way that the light reaches even less accessible corners and serifs.

Further advantages in brief:

More light in cold conditions - lower letter depth - no contact corrosion - no risk of glass breakage - more intense colours - easy and robust installation - no high voltage - no high currents - software - weather resistant - fast and simple calculation - vibration resistant - low weight - made in Germany - dimmable - maintenance-free - intricate illumination - LED Tube and converter from a single source

and last but not least:

a good public image of LEDs