

## EVG 20/3

Order No.: 12030200

## Specification Sheet

Type	Electronic convertor for high-voltage luminous discharge tubes according to EN 50107.
	Suitable for indoor and outdoor systems. Limited suitability for flash operation.
Weight	0.370 kg
Radio interference suppression	According to VDE 0875, Part 2A1 (EN 55015)
Temperatures	Ambient temperature range: -25 to +65°C Temperature limit: +80°C (max. ambient temp. that the convertor is able to withstand for a short period of time without being destroyed)
Housing	Hard PVC shell Standard colour: white Filling compound: polyurethane (black)
Class of protection	I
Degree of protection	IP 65



### Primary Data

Mains voltage	230 Volt, +/- 10 %, 50 / 60Hz
Current consumption	Depends on the connected tube load; max. 0.35 Amp. cos phi 0.95

### Protective Equipment

Safety fuse	Integrated 1 Amp. melting fuse offering protection against internal short circuits.
Earth leakage trip	(acc. to EN 50107) integrated in the convertor
Open circuit protection	(acc. to EN 50107) integrated in the convertor (on request)

### Caution:

The installation instructions must be observed when using the convertors!

### Secondary Data

3,000 Volt with 20 mA constant current, symmetrical alternating current, load-dependent operating frequency, 16-20 kHz, earthed secondary winding.  
Internal high-voltage shutdown under fault conditions (e.g. in case of tube breakage).

20/3:

Suitable for blue discharge tubes.

Only partly suitable for red discharge tubes due to an occasional jelly bean effect.

20/3R (red discharge):

No jelly beaning, suitable for red discharge tubes only.

### Connectable tube lengths (in meter):

Blue discharge (outdoor)						
Diameter	10	12	15	18	20	22
2 Syst.	3.2	4.0	5.0	5.8	6.3	6.8
3 Syst.	2.8	3.5	4.3	5.1	5.5	6.0
4 Syst.	2.4	3.0	3.7	4.3	4.7	5.1
5 Syst.	2.0	2.5	3.1	3.6	3.9	4.2
6 Syst.	1.6	2.0	2.5	2.9	3.1	3.4

Blue discharge (indoor)						
Diameter	10	12	15	18	20	22
2 Syst.	4.0	5.0	6.0	7.1	7.6	8.3
3 Syst.	3.6	4.5	5.4	6.4	6.9	7.5
4 Syst.	3.2	4.0	4.8	5.7	6.1	6.6
5 Syst.	2.8	3.5	4.2	5.0	5.3	5.8
6 Syst.	2.4	3.0	3.6	4.2	4.6	5.0

Red discharge						
Diameter	10	12	15	18	20	22
2 Syst.	2.1	2.5	3.2	3.8	4.1	4.3
3 Syst.	1.8	2.2	2.8	3.3	3.6	3.8
4 Syst.	1.5	1.9	2.4	2.8	3.1	3.2
5 Syst.	1.3	1.6	2.0	2.4	2.5	2.7
6 Syst.	1.0	1.2	1.6	1.9	2.0	2.1

The values given represent the maximum connectable tube lengths which must not be exceeded. Shorter tube lengths, however, may be connected without any restrictions. The tube lengths are calculated on the basis of the 'Filling Pressure Recommendations for Fluorescent Tubes' published by the German *Fachverband Lichtwerbung*.

### Housing dimensions



160x40x35mm

Housing colour: white (standard) or black  
All dimensions in millimetres

Mains cable:  
H03VV-F, 3x0.75

High-voltage cable:  
PVC  
4.0 mm (diameter)

