

SCHIEDERWERK

Electronic Lamp Power Supply

EVG 5-n AC

Technical Specifications



CHARACTERISTICS

- with POWER FACTOR CORRECTOR (PF 0,93) in compliance with DIN EN 61 000 - 3 – 2, Class A
- Flickerfree operation
- μ P controlled
- Longer lamp service time
- Constant light output during lamp service time
- by power regulation
- Improved light intensity
- Compact shape, low weight
- Automatic mains selection
- Auxiliary output 24V / 150mA
- Dim function
- Lamp On / Off via opto coupler

ORDER NUMBERS

Type	Order No.	Output Power / W	Lamps	Type
EVG 5-57AC	32 056 1000 AMP	400 / 575	Dimmer input AMP 2,8	BA, BS 575, HMI, HMP, MSR, UMI
	32 184 1000 JST		Dimmer input JST	
EVG 5-40AC HQ	32 088 1000	400	without PFC	BA, HQI, NAV
EVG 5-40AC	32 210 1000	400		HTI MSR, HMI
EVG 5-27AC	32 197 1000	270		HTI
EVG 5-40 KZW	32 212 1000	400	3 restrikes, with rib heatsink, enhanced start up current	HTI
EVG 5-40 KZW 12AC	32 216 1000	400	without PFC, 12V AC auxiliary output voltage	Q 407 Z1
EVG 5-57 KZW	32 231 1000	575	Restrike repetition	MSD, HSD, MSR

LIMITS

Generally all discharge lamps can be supplied within following limits:

ILmax = 8,5A

ULmax = 135V

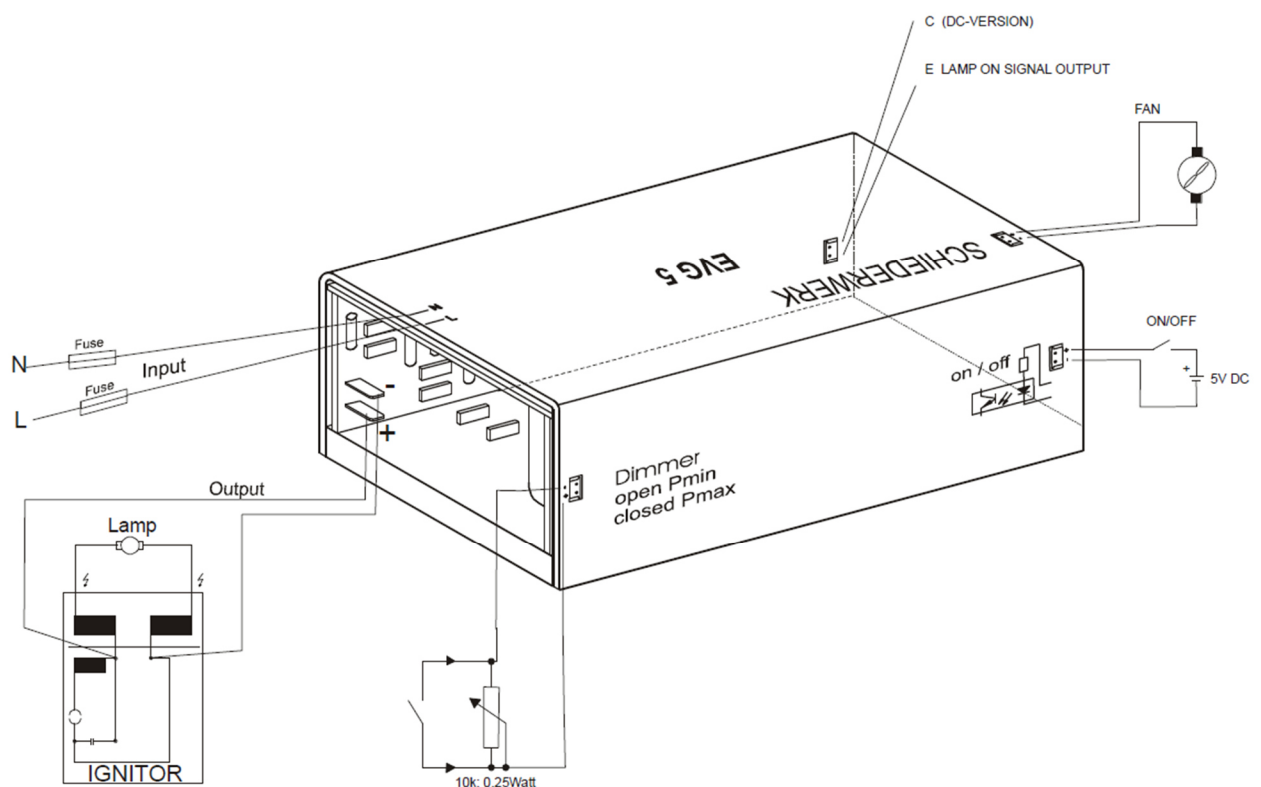
Pmax = 575W

TECHNICAL DATA

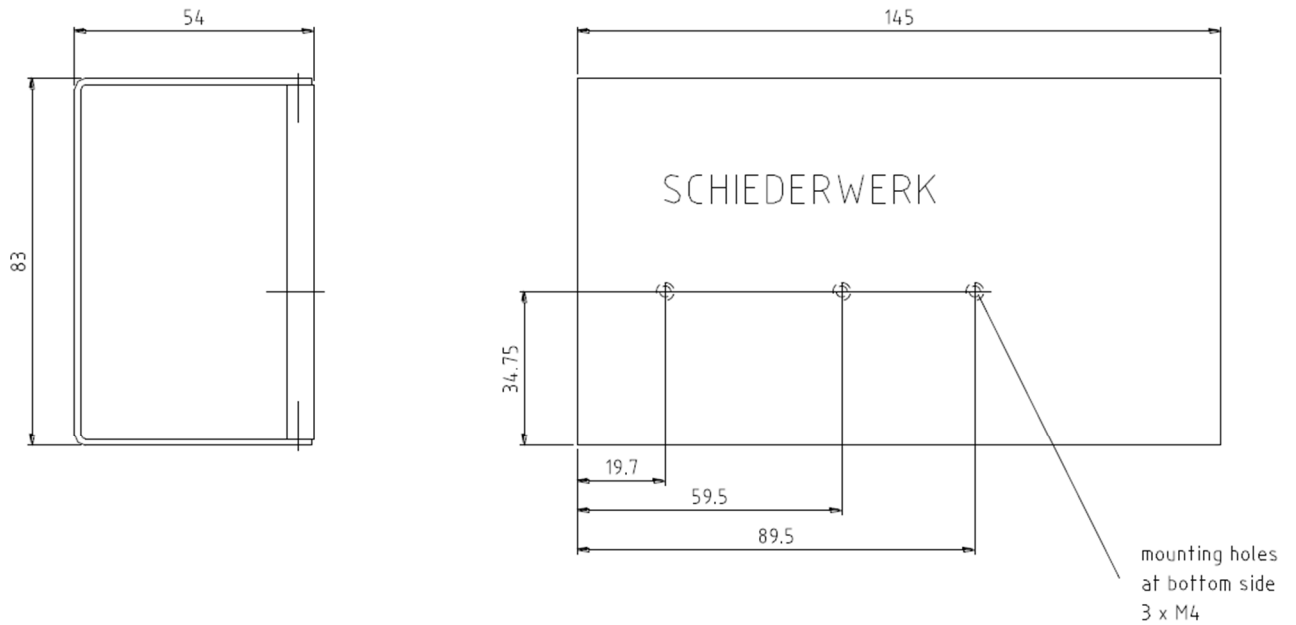
Mains voltage, function range	230V /115V, auto mains, 198-264V, 198-264V, 100*-132V
Line frequency	47 – 63Hz
Earth leakage current 230V, 50-60Hz	< 0,7mA
Dimming range	50-100%, dependent on lamp type
Efficiency	0,91 – 0,93 typ.
Ambient temperature	50 - 60°C, forced cooling, dependent on lamp type
Output power tolerance	± 5%
Protection	Thermal cut off at 80°C, restart at 76°C Short circuit protected Cut off at U-output > 185V after 3s (dependent on lamp type)
EMI	external noise filter
Maximum dimensions	LxWxH 145 x 83 x 54 variant of cooling plate LxHxW 145 x 86 x 73 variant of rib heat sink
Ignition	dependent on lamp type
JST Connectors with cable 340mm	Art. No. 32 039 6060
Approvals	UL 1950, CB

* for ballasts with output power < 400W/90V
Subject to changes without notice

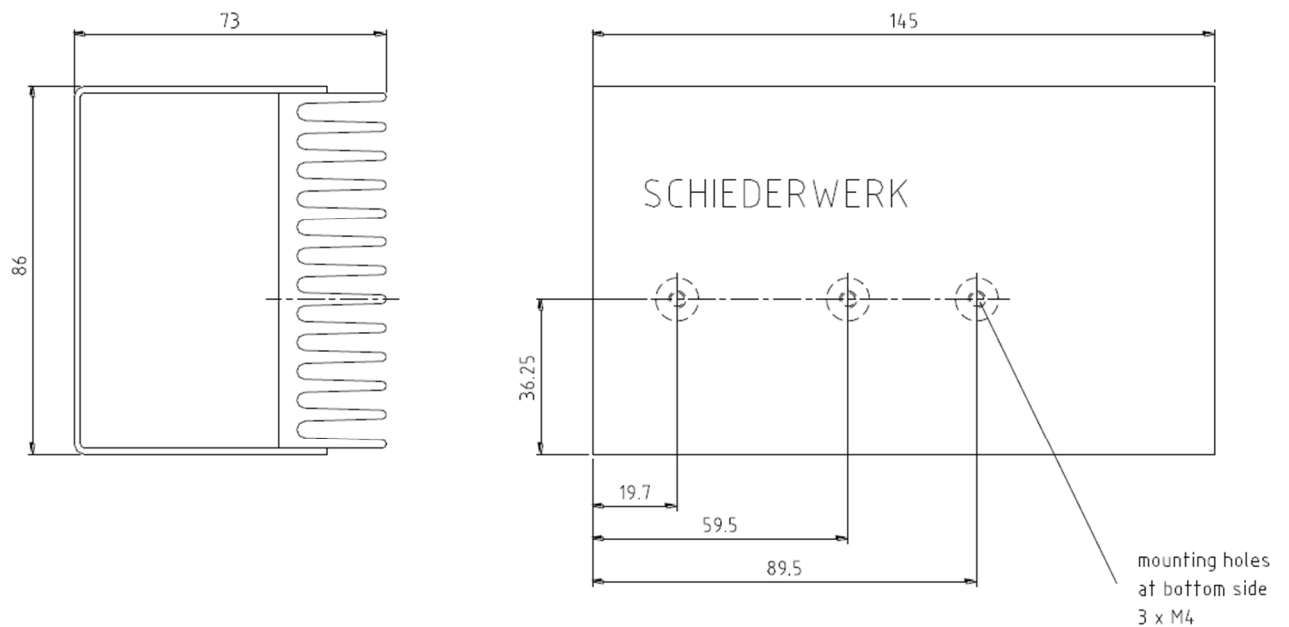
CONNECTOR WIRING



DIMENSIONS EVG 5-N WITH COOLING PLATE



DIMENSIONS EVG 5-N WITH RIB HEAT SINK



Connectors

Lamp ON/OFF	JST B2B-EH-A
Mains input	AMP Faston 2,8 x 0,8
To ignitor	AMP Faston 2,8 x 0,8
Dimmer	JST B2B-EH-A, AMP 2,8 order no. 32 056 1000
Auxiliary voltage	JST B2B-EH-A

WARNING NOTICE

Do not attempt to handle or operate an electronic power supply (EPS) and ignitor before completely reading and understanding this notice. Contact Schiederwerk if you are uncertain of hazards associated with these devices.

The ignitor produces starting voltages of up to 60 kV and electromagnetic radiation interference which are hazardous to personnel and sensitive instrumentation. Exercise appropriate care in the handling of high voltages. Do not touch any conductive parts during operation.

Ensure the units are disconnected from the mains before exchanging the lamp connected to the PSU / ignitor resp. to the end application. The residual charge left on the capacitors is a danger to life if the units are still connected to mains!

Caution: The residual charge on the capacitors can be a danger to life even if the units are disconnected from the mains. Please handle with care!

Both electronic lamp ballast and ignitor must never be installed or operated in an explosive or volatile atmosphere. Never use the ballast or ignitor near flammable gases or liquids. See that there will be no moisture, dust or similar which could lead to short circuits or fire.

Before using the ballast or ignitor in any kind of outdoor application you have to take additional measures and observe special requirements. If you are uncertain, contact Schiederwerk.

No potential isolation is provided between line input and output. Accidentally grounding of an output terminal by direct contact or arcing to GND can damage the unit (no warranty replacement).

The unit is designed for case mounting. Due observation of electrical safety and RFI suppression code requirements is mandatory in all applications. See that sufficient cooling of EPS and ignitor is provided.

All installation and repair work on this unit is only permitted by qualified personnel. Always comply with local safety requirements when operating the unit uncased.

Extreme care must be taken when testing the unit live. The use of an isolating transformer is mandatory. On no account may grounded test instruments / meters be used for this purpose!

Schiederwerk does not assume liability for disregarding of this notice, incorrect use of the EPS and ignitor or dis-regarding of any legal requirements. This product is subject to technical changes without prior notice.

CAUTION:

Mains supply must be fused according to local safety regulations.

Schiederwerk recommends 2 pole fuse (L+N). The appropriate fuse value can be calculated as:

$$2,1 * \frac{P_{\text{lamp}}}{V_{\text{line}}} \geq I_{\text{fuse}} \geq 1,85 * \frac{P_{\text{lamp}}}{V_{\text{line}}}$$

Last Update: 13.02.2014