

SCHIEDERWERK

Electronic Lamp Power Supply

PVG 18-18 AC

Technical Specifications



CHARACTERISTICS

- PFC acc. to DIN EN 61000-3-2, Class C
- Power factor > 0,98
- Flicker-free operation
- Enhanced service time of lamp
- Constant lamp power during service time by power regulation
- Increased light output
- Mains input range 200V - 240V nom.
- Dim function (dependent on lamp type)
- Lamp on/off via opto coupler or switch (opt.)
- Lamp ok via opto coupler

ORDER NUMBERS

Type	Order No.	Output Power / W	Lamps	Type
PVG 18-18 AC	32 250 1000	1800	MSR, MHN	PVG 18-18 AC
<u>Ignitors:</u> DZG/HZG 28-42 (hot restrike)	32 277 10xx			<u>Ignitors:</u> DZG/HZG 28-42 (hot restrike)

LIMITS

Generally all discharge lamps can be supplied within following limits:

ILmax = 24A

ULmax = 150V

Pmax = 1800W

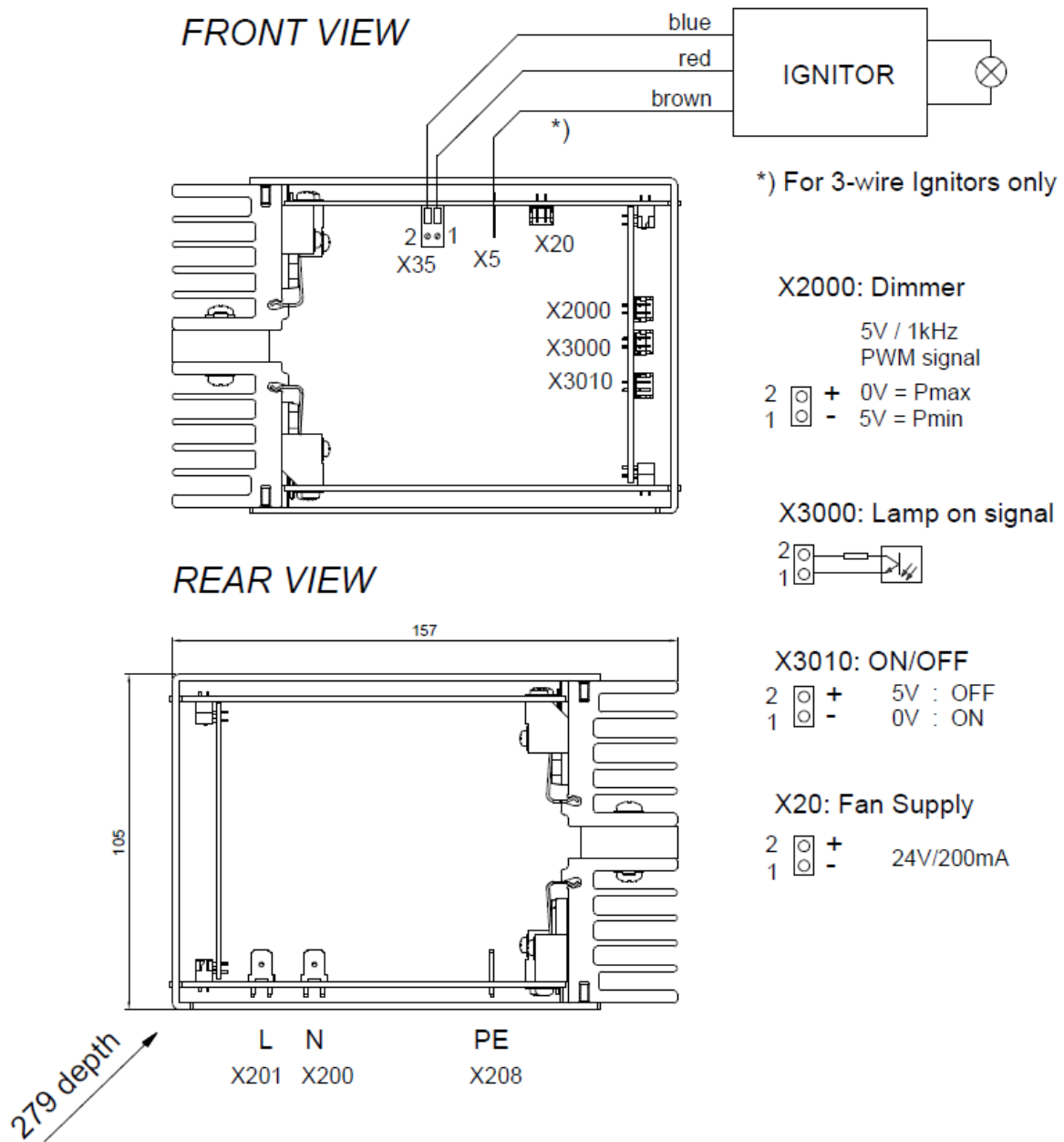
TECHNICAL DATA

Mains voltage range nominal	200 – 240V
Mains voltage range tolerance	187 -264V
Line frequency	47 – 63Hz
Open circuit voltage	approx. 400V
Lamp voltage	80 – 150V, 125 Hz square wave
Current ripple	< 10%
Earth leakage current 230V, 50-60Hz	< 0,7mA
Dimming range	50-100%, dependent on lamp type
Dimming control	1kHz PWM signal
Efficiency	0,90 typ. at 230V
Power fluctuation in lamp arc/ mains	± 5% / ± 3%
Auxiliary voltage	24V DC, 200 mA
Ambient temperature	50°C, forced cooling required
Output power tolerance	± 5%
EMI	Internal noise filter
Maximum dimensions (mm)	LxWxH 279 x 158 x 105

Subject to changes without notice

CONNECTOR WIRING

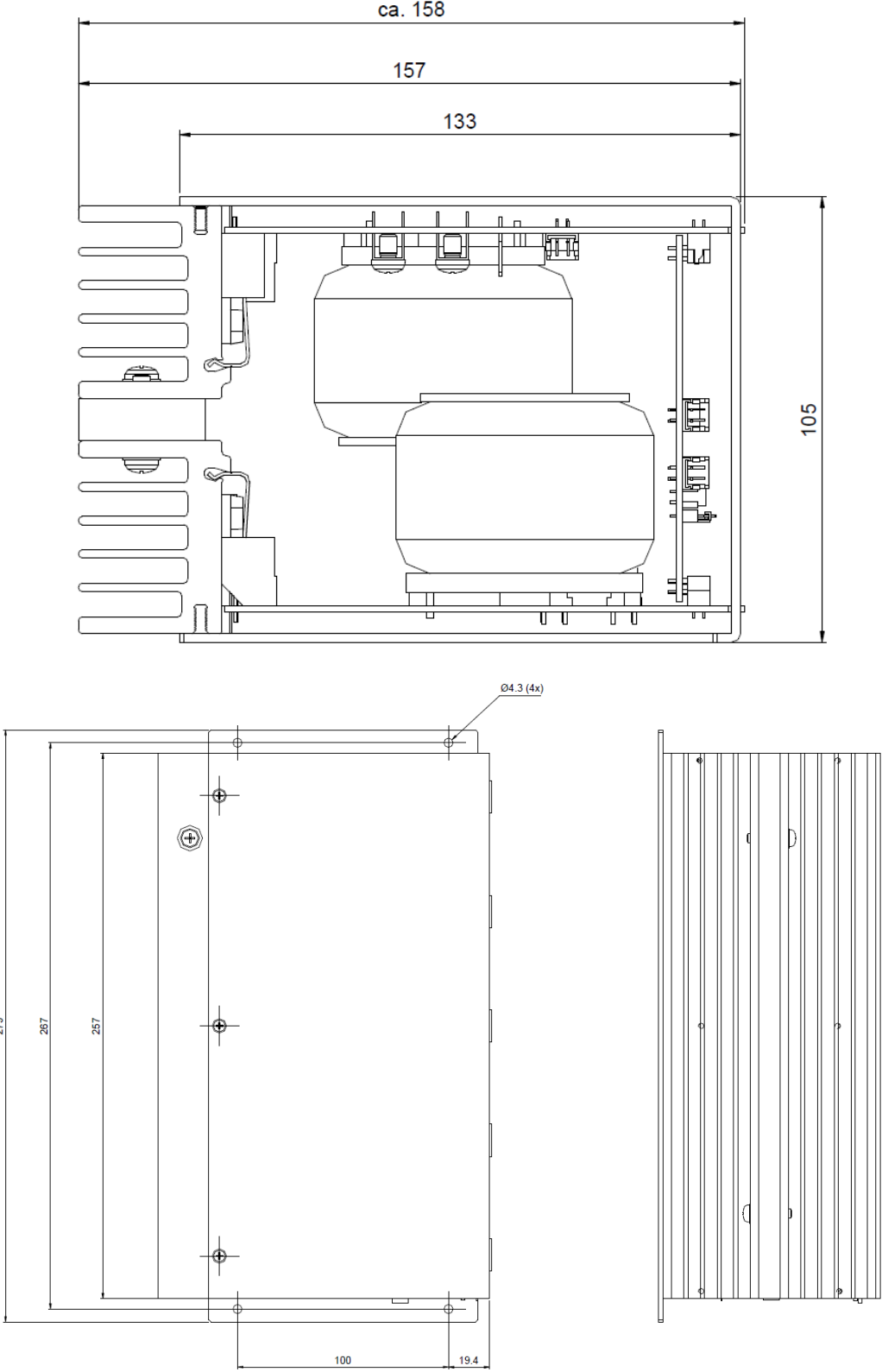
ATTENTION: For 2-wire ignitors connect X35



CONNECTORS (BALLAST)

Mains	AMP 6,3	X201, X200, X208
Ignitor (lamp terminals)	Weidmüller TOP4GS Screw conn. 2 poles 90°	X35/1, X35/2
Ignitor (ignition transformer)	AMP 6,3	X5
Remote ON/OFF	JST S2B-EH	X 3010
Dimmer	JST S2B-EH	X 2000
Lamp on signal	JST S2B-EH	X 3000
Fan supply	JST S2B-EH	X20

DIMENSIONS



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 disregarding 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:

$$1,5 * \frac{P_{\text{lamp}}}{V_{\text{line}}} \geq I_{\text{fuse}} \geq 1,2 * \frac{P_{\text{lamp}}}{V_{\text{line}}}$$

Last Update: 25.10.2017