

Ref: 38.026

Features:

- Protection against transient main peaks up to 6kV (between L-N and L/N-PE)
- Electrical short-circuit protection
- Overload protection
- Overtemperature protection
- Degree of protection: IP66 / IP67
- Protection class I



Electrical characteristics	Power	150W
	Voltage 50-60 Hz (V)	110V - 277V
	Main current mA	1670mA - 540mA
	Inrush current A / μ s	110A / 250A
	Current output DC mA (\pm 5%)	600mA / 1400mA
	Voltage output DC (\pm 1%)	72V - 214V
	THD %	<20%
	Efficiency at full load % (230V)	>93%
	Ripple 100 Hz	\leq 5%
Maximum ratings	Ambient temperature range $^{\circ}$ C min.	-40 $^{\circ}$ C
	Ambient temperature range $^{\circ}$ C max.	+60 $^{\circ}$ C
	Operation humidity range % min.	10%
	Operation humidity range % max.	90%
	Storage temperature range $^{\circ}$ C min.	-40 $^{\circ}$ C
	Ambient temperature range $^{\circ}$ C max.	+85 $^{\circ}$ C
	Storage humidity range % min.	5%
	Storage humidity range % max.	95%
	Max. operation temperature at t_c point $^{\circ}$ C	+85 $^{\circ}$ C
Expected service life time	Degree of protection	IP66 / IP67
	Operation current Max.	80 $^{\circ}$ C - 70 $^{\circ}$ C
Dimming	Operation current hrs.	50,000h - 100,000h
	Dimmable	no
	Dimming interface DALI	no
	DALI power supply integrated	no
	PUSH	no
	Phase cut trailing edge	no
	Control phase	no
	Bluetooth	no
	Dimming interface 1-10V	yes
	Dimming interface others	no
	Min. dimming level	0%
	Max. dimming level	100%
Other	Dimension	220x68x37mm
	Weight	1180g
	Guarantee	5 years



Measurements:

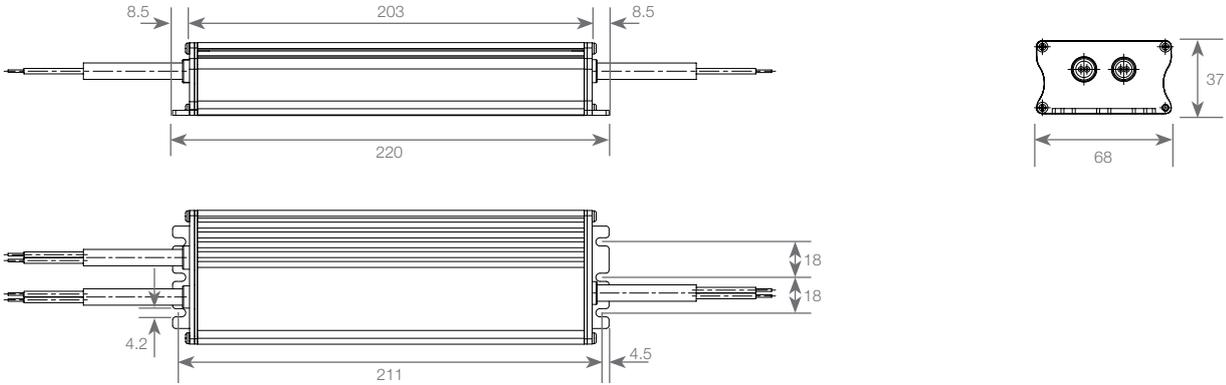
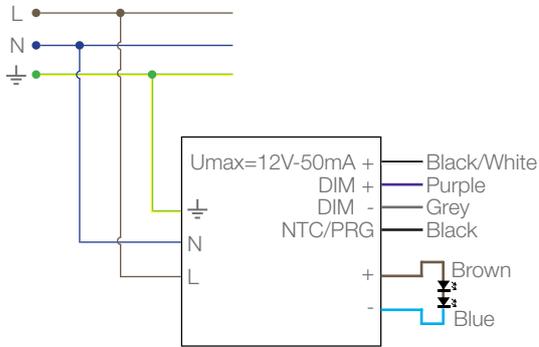
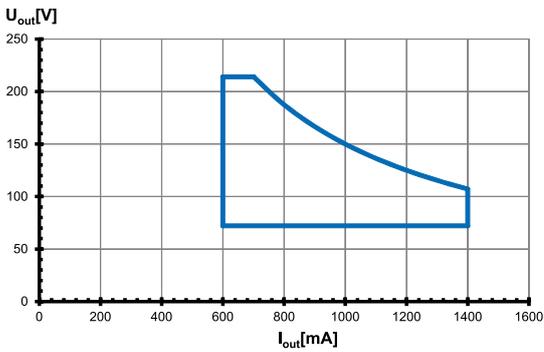


Diagram:

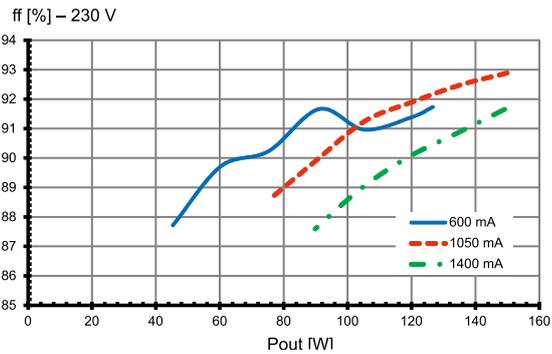


Type performance graphs / Type EDXe

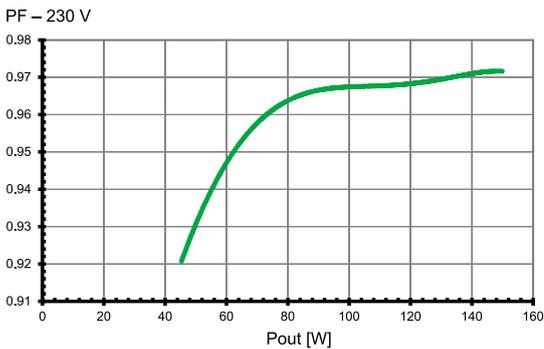
Working area



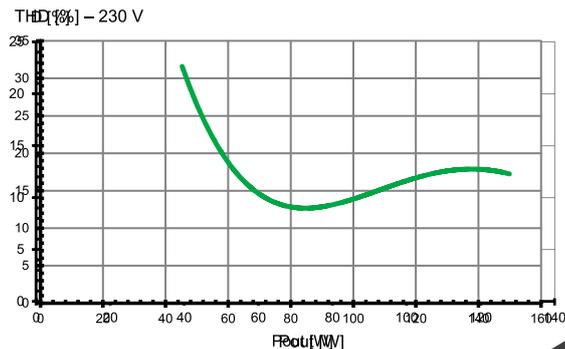
Efficiency



Power factor



Total harmonic factor (THD)



Assembly and Safety Information

Applied standards:

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2
- EN 61000-3-3
- EN 55015
- EN 62384

Mandatory regulations:

- DIN VDE 0100
- EN 60598-1

Safety functions

- **Transient main peaks protection:** values are in compliance with EN 61547 (interference immunity). Surges between L-N and L/N-PE: up to 6 KV. It is possible to increase the protection up to 10 KV with our separate available surge protection devices:
 - For luminaires of protection class I: 142738 / 142742.
 - For IP66 luminaires of protection class I: 142748
 - For luminaires of protection class II: 142737
- **Short-circuit protection:** the control gear is protected against permanent short-circuit with automatic restart function.
- **Overload protection:** the control gears have overload the control gear will reduce the output current. Automatic restart when the fault is removed. Please check before switch-on main power supply that the selected led load is suitable (see Electrical Characteristics on data sheet).
- **Overheating:** The control gears have overheating protection. In case of overheating the control gear will reduces the output current. Automatic restart when the fault is removed.
- **No load operation:** The control gear is protected against no load operation (open load).
- If any of the above mentioned safety functions will be triggered, disconnect the control gear from the power supply then find and eliminate the cause of the problem.

Mechanical mounting:

- **Mounting position:**
 - Independent application: drivers with integrated cord grip are allowed to use for independent applications.
- **Mounting location:**
 - led drivers are designed for integration into luminaires or comparable devices.
 - Independent LED drivers do not need to be integrated into a casing.
 - Installation in outdoor luminaires: degree of protection for luminaire with water protection rate ≥ 4 (e.g. IP54 required).
- **Degree of protection:** IP66 / IP67
- **Clearance:** min. 0.10m from walls, ceilings and insulation.
- **Surface:** solid and plane surface for optimum heat dissipation required.
- **Heat transfer:**
 - If the led drivers is destined for installation in a luminaire. Sufficient heat transfer must be ensured between the led driver and the luminaire casing.
 - Led drivers should be mounted with the greatest possible clearance to heat sources. During operation, the temperature measure at the led driver's t_c point must not exceed the specified maximum value.
- **Fastening:** using M4 screws in the designated holes.
- **Tightening torque:** 0.2 Nm.

Electrical installation:

- **Wiring:** the main conductor within the luminaire must be kept short (to reduce the induction of interference). Main and lamp conductors must be kept separate and if possible should not be laid in parallel to one another. Max. secondary side lead length for independent drivers: 1m.
- **Polarity:** please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.
- **Through-wiring:** is not allowed.
- **Parallel connection:** at secondary side is not allowed.
- **Secondary load:** the sum of forward voltages of led loads is within the tolerances which are mentioned in the Electrical Characteristics on the data sheet.

Product labels:

PRI $U_i = 110...277V\sim$ $I_i = 1670...540mA$ $f_i = 50...60Hz$ $I > 0,95$ L = Brown N = Blue $\Phi = Gn/Ye$ $t_c = 85^\circ C$ $t_a = -40...60^\circ C$ Made in China	VS LIGHTING SOLUTIONS VosslohSchleife Deutschland GmbH Hake Steiner 8, D-58509 Lüddecken Dimmable Electronic Converter for LED Type ECKd 1400.311 Ref.No. 186776	EN 61347-1 EN 61347-2-13 EN 62384 EN 55015 EN 61547 EN 61000-3-2	SEC 600...1400mA $U = 72...214V\sim$ $U_{max} = 250V\sim$ $P_{max} = 150W$ IP 66/67 $V_{out} = 12V \sim Bl/Wh$ $50mA$ $1 \times 10V \sim Purple$ $\sim Gray$ NTC/FRG = Black SEC \sim Brown \sim Blue
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