

200W, 120-277Vac Input Constant Voltage LED Driver

■ Features

- Supply Voltage: 108-305Vac, 380Vac for 2 hours
- Great Surge Immunity 6kV
- 100,000Hour Life @ Tc=75°C
- 8 Year Warranty @ Tc<=75°C (from date of manufacture)
- High Efficiency
- UL Class P, ENEC/CB/CCC SELV Output
- Safety according to EN 61347-1, 61347-2-3
61347-2-13, 62384



■ Application

- Strip lights, Landscape lights, Bay lights, Street lights, Flood lights

■ Model List

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min	Output Current Max	Certification
BLD-200-V012-NNZ	108 ~ 305 Vac	200 W	12V	0	16.7A	UL/FCC/CB/ENEC/CCC
BLD-200-V024-NNZ	108 ~ 305 Vac	200 W	24V	0	8.3A	UL/FCC/CB/ENEC/CCC

Z = U, UL cable with ground wire S, VDE cable/Class I D, VDE cable/Class II

200W, 120-277Vac Input Constant Voltage LED Driver
■ Technical Data

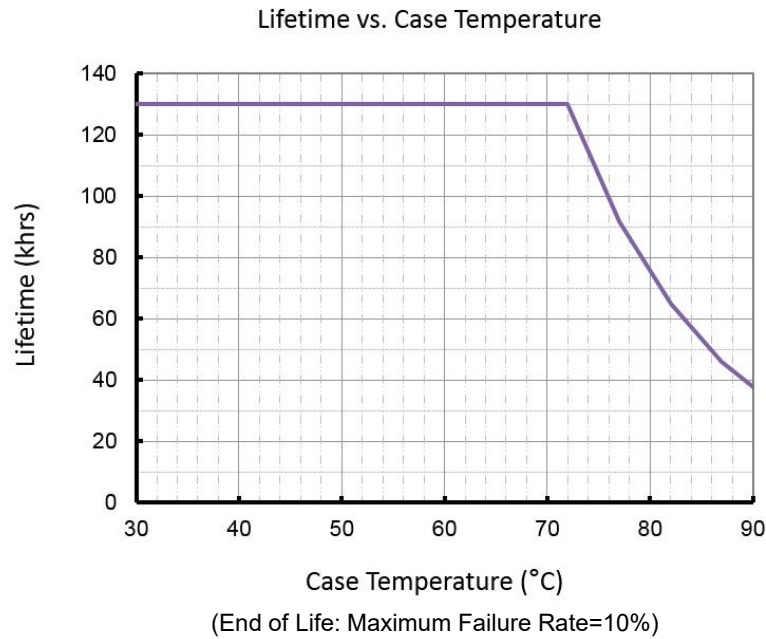
Input Voltage	108~305Vac or 127V-420Vdc, 380Vac for 2 hours
Input Frequency	47~63Hz
Power Factor	>0.9@60-100%load, refer to PF vs. Load curve
THD	<15%@60-100%load, refer to THD vs. Load curve
Input Current	2.2Amax@120Vac & Full-Load, 1.1Amax@220Vac & Full-Load
Inrush Current	65A peak, 1.2ms duration, <0.25A2s@230Vac, Cold Start 70A peak, 1.3ms duration, <0.5A2s@277Vac, Cold Start
Leakage Current	1mA max @277Vac 60Hz, UL8750,0.75mAmax @240Vac 50Hz, IEC61347-1
Input Under Voltage	Shut down and auto-restart
Input Over Voltage	*Optional: Shutdown @320Vac
Surge Protection	Line to line 6kV, line to ground 10kV, IEC 61000-4-5
Voltage Accuracy	±3%Vo
Setup Time	1.2s max.
Output Overshoot	10% Vo, max.
Output Over Current	120% Io, typ.
Short Circuit	Auto recovery. The output recovers when short is removed.
Over Temperature	Turn off the output when $T_c \geq 105 \pm 10^\circ\text{C}$; Auto Recovery When $T_c \leq 70 \pm 10^\circ\text{C}$
Operating Temperature	Case Temperature $T_c = -40^\circ\text{C} \sim +90^\circ\text{C}$; 10%RH~100%RH
Storage Temperature	$-40^\circ\text{C} \sim +85^\circ\text{C}$; 5%RH~100%RH
MTBF	$\geq 280,000$ hours, 75°C case temperature (MIL-HDBK-217F)
Lifetime	$\geq 100,000$ hours, 75°C case temperature, refer to life vs. T_c curve
Case Temperature	90°C max, marked in the T_c point of label
Dimension	6.34x2.66x1.32 by inch (body), 7.40x2.66x1.32 by inch (endcaps included) 161.0x67.5x38.5 by mm (body), 188.0x67.5x38.5 by mm (endcaps included)
Net Weight	800g
Packing	25pcs, 21kg per carton, carton size: 490x370x230mm

Notes: Unless specified, all the test results are measured in 25°C room temperature.

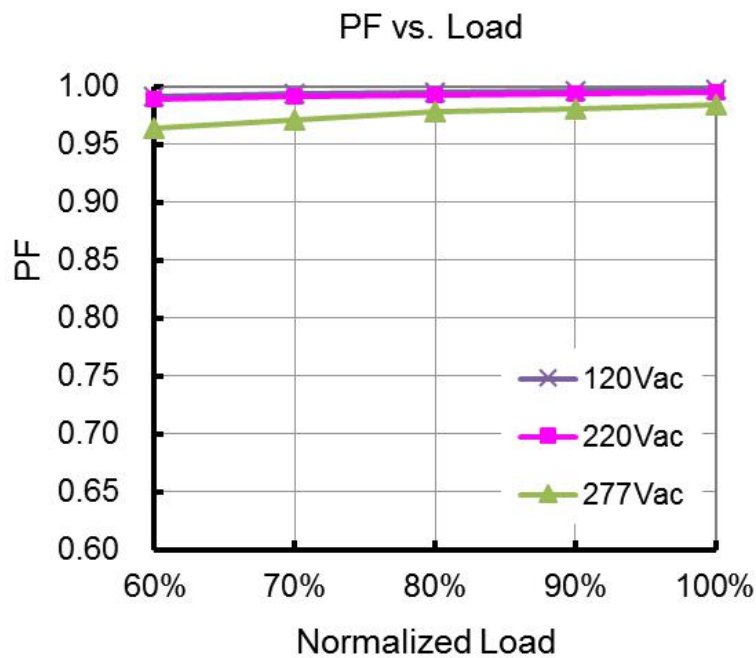
■ **Safety/EMC Compliance**

Safety Standard	Description
UL8750	Light emitting diode(LED) equipment for use in lighting products
UL1012	Power units other than class 2
IEC 61347-1	Lamp control gear Part 1: general and safety requirements
IEC 61347-2-13	Lamp control gear Part 2-13: particular requirement for d.c. or a.c. supplied electronic control gear for LED modules
EMI Standards	Description
IEC 55015	Conducted emission test & radiated emission test
IEC 61000-3-2	Harmonic current emissions; Class C
IEC 61000-3-3	Voltage fluctuations & flicker
FCC Part 15	ANSI C63.4:2009 Class B
EMS Standards	Description
IEC 61000-4-2	Electrostatic discharge (ESD): 8 kV air discharge, 4 kV contact discharge
IEC 61000-4-3	Radio frequency electromagnetic field susceptibility test (RS)
IEC 61000-4-4	Electrical fast transient (EFT)
IEC 61000-4-5	Surge immunity test
IEC 61000-4-6	Conducted radio frequency disturbances test (CS)
IEC 61000-4-8	Power frequency magnetic field test
IEC 61000-4-11	Voltage dips
IEC 61547	Electromagnetic immunity requirements applies to lighting equipment

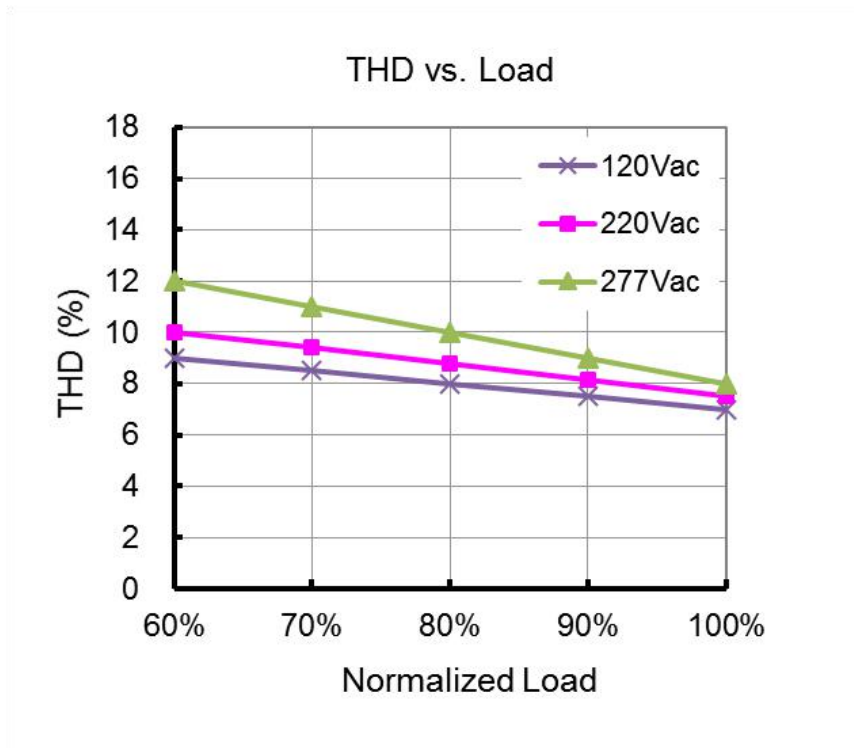
■ Lifetime vs. Case Temperature



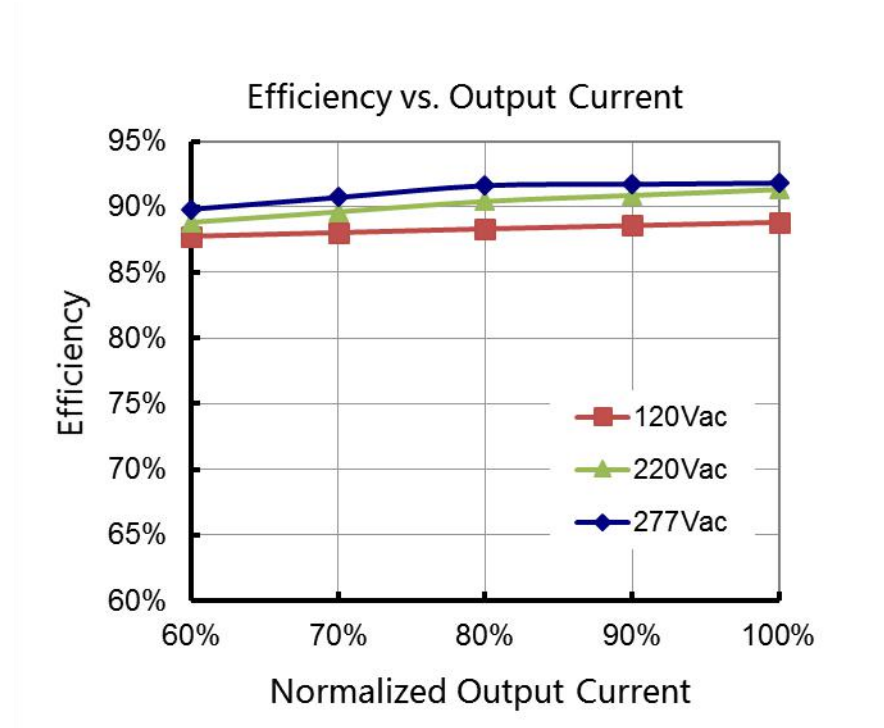
■ Power Factor vs. Load

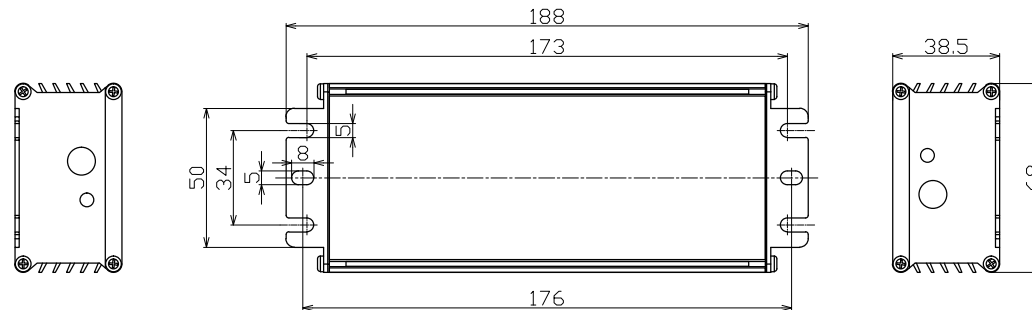
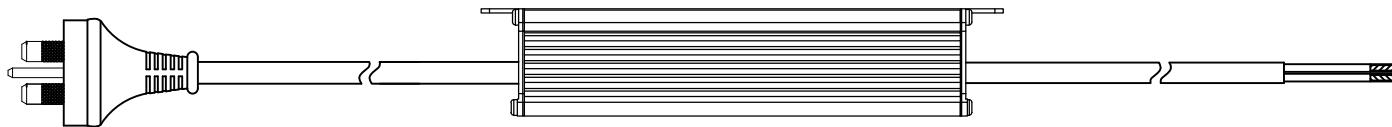
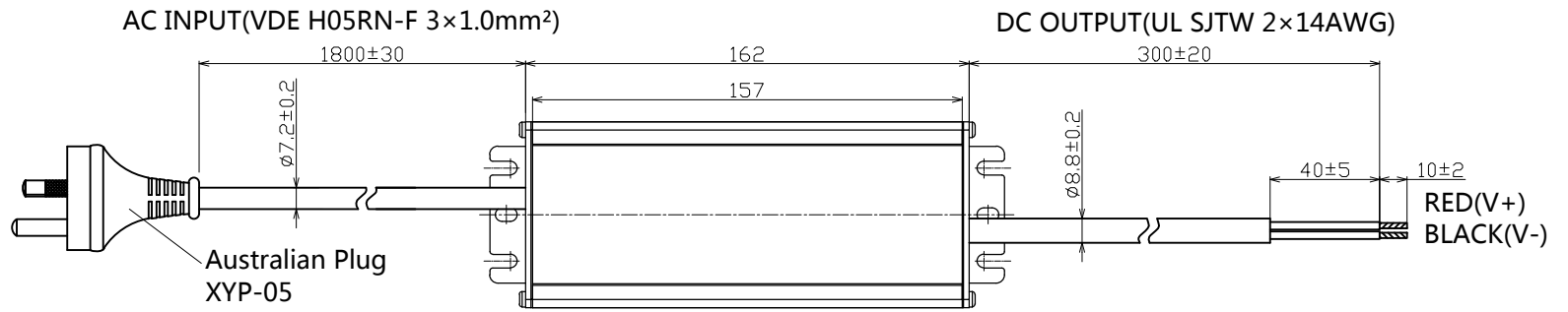
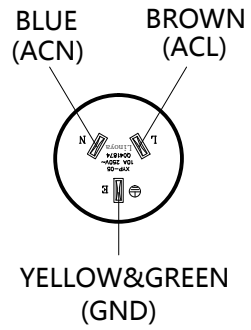


■ THD vs. Load



■ Efficiency vs. Load (12V Model)





Unspecified tolerance :±1

uPowerTek

BLD-200-VOXX-NNS