



200W, 100-277Vac Input Constant Voltage LED Driver



Constant Voltage Driver

Model: XV200W24 XYZ
XV200W48 XYZ



Model	Input Voltage Range	Output Power	Output Voltage	Output Current Min	Output Current Max	Certification
XV200W24 XYZ	90 ~ 305 Vac	200 W	24V	0	8.3A	CE
XV200W48 XYZ	90 ~ 305 Vac	200 W	48V	0	4.2A	CE

XY=	Dimming Method	Programmable	12Vaux	Dim-off	Body Size
NN	-	-	-	-	220.0x67.5x33.5 mm
DN	0-10V	-	-	✓	220.0x67.5x33.5 mm
EN	0-10V	-	✓	✓	220.0x67.5x33.5 mm
AN	DALI	-	-	✓	220.0x67.5x33.5 mm
MN	DMX	-	-	✓	220.0x67.5x33.5 mm

Z = U, UL cable with ground wire

S, VDE cable/Class I

D, VDE cable/Class II

1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Voltage
	IP Grade	IP67
	Insulation Class	Class II
Input	Input Voltage	90~305Vac or 127V-420Vdc
	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, UL8750,0.75mAmx @200Vac 50Hz, IEC61347-1
	Input Under Voltage	Shut down and auto-restart



200W, 100-277Vac Input Constant Voltage LED Driver

	Input Over Voltage	*Optional: Shutdown @320Vac
	Surge Protection	Line to line 6kV, line to ground 10kV, IEC 61000-4-5
Output	Voltage Accuracy	$\pm 3\%V_o$
	Setup Time	1.2s max.
	Output Overshoot	10% V_o , max.
	Output Over Current	120% I_o , typ.
Protection	Short Circuit	Auto recovery. The output recovers when short is removed.
	Over Temperature	Lower the output current when $T_c \geq 105 \pm 10^\circ\text{C}$; Auto Recovery When $T_c \leq 70 \pm 10^\circ\text{C}$
Environment	Operating Temperature	$-40^\circ\text{C} \sim +70^\circ\text{C}$; 10%RH~100%RH
	Storage Temperature	$-40^\circ\text{C} \sim +85^\circ\text{C}$; 5%RH~100%RH
Standards	Certification	CE
	Safety Standards	EN61347-1:2015, EN61347-2-13:2014/A1:2017, EN62493:2015
	EMC Standards	EN55015:2013/A1:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN61547:2009
	Performance	EN62384
Others	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
	Dimensions	8.46x2.66x1.52 by inch (body), 9.52x2.66x1.52 by inch (endcaps included)
		220.0x67.5x33.5 by mm (body), 242.0x67.5x33.5 by mm (endcaps included)
	Net Weight	1200g
Packing	20pcs/Carton/22kg, 490 x 370 x 190 by mm	

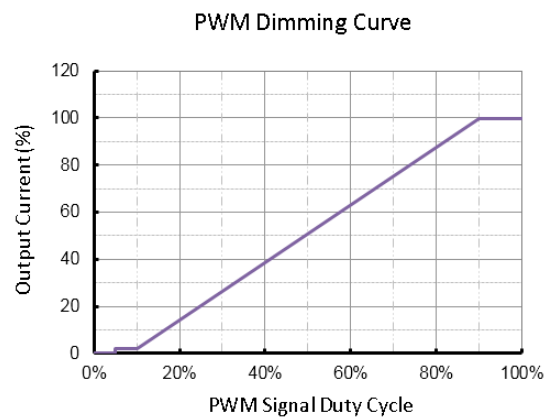
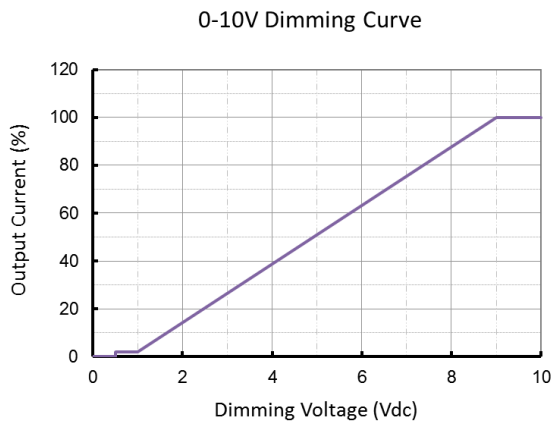
Notes: Unless specified, all the test results are measured in 25°C room temperature.

* marked items are optional and contact with sales people to get the functions.

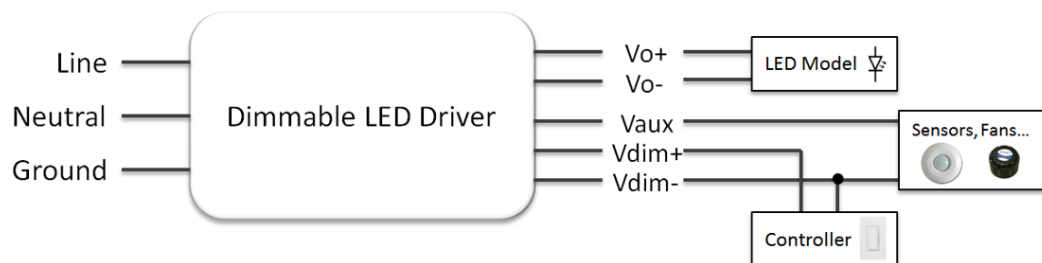
2. Dimming

Parameter	Min.	Typ.	Max.
Vdim Sourcing Current	200uA	300uA	450uA
Vdim Allowed Input Voltage	-20 V		20 V
0-10V Dimming Range	10% (Vdim=1V)	Linear	100% (Vdim=9~10V)
PWM Dimming Range	10% (Duty=10%)	Linear	100% (Duty=90-100%)
Dim off threshold	0.4V or 4%	0.5V or 5%	0.6V or 6%
Dim on threshold	0.6V or 6%	0.7V or 7%	0.8V or 8%
PWM High	3V		10V
PWM Low	0V		0.6V
PWM Frequency	300Hz		2kHz
External PWM Controller Current Sinking Capability	300uA		
DALI Interface Standard		IEC62386	
DA1,DA2 High Level	9.5	16	22.5
DA1,DA2 Low Level	-6.5	0	6.5
DA1,DA2 Current	0		2mA

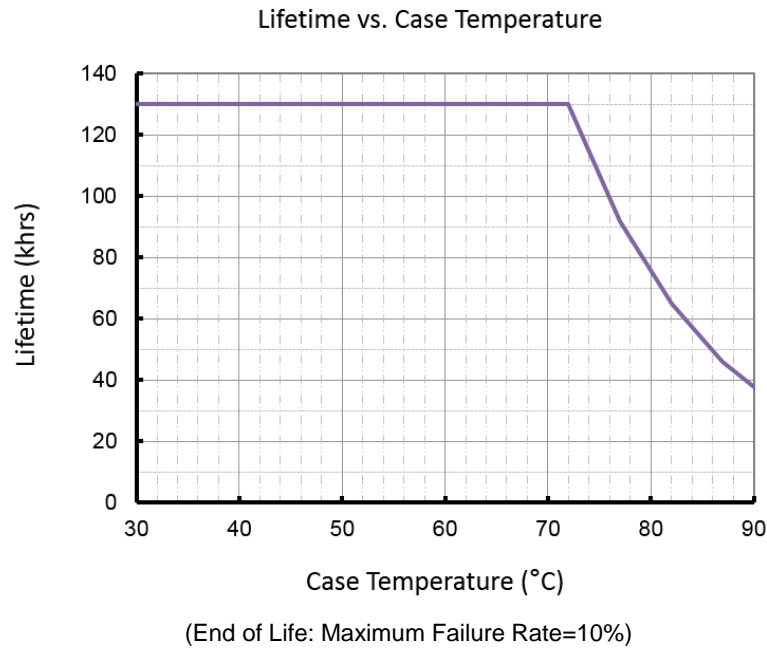
- Dimming Curve



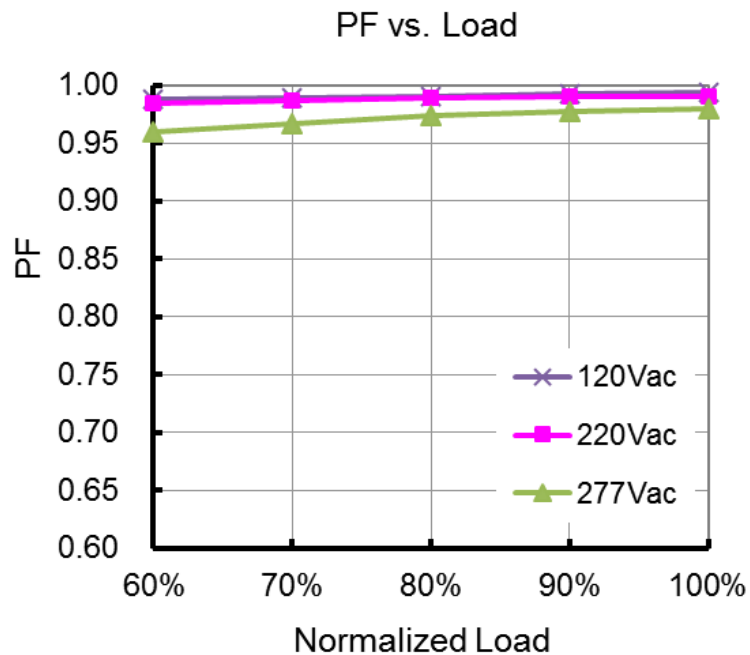
- Dimming Wiring



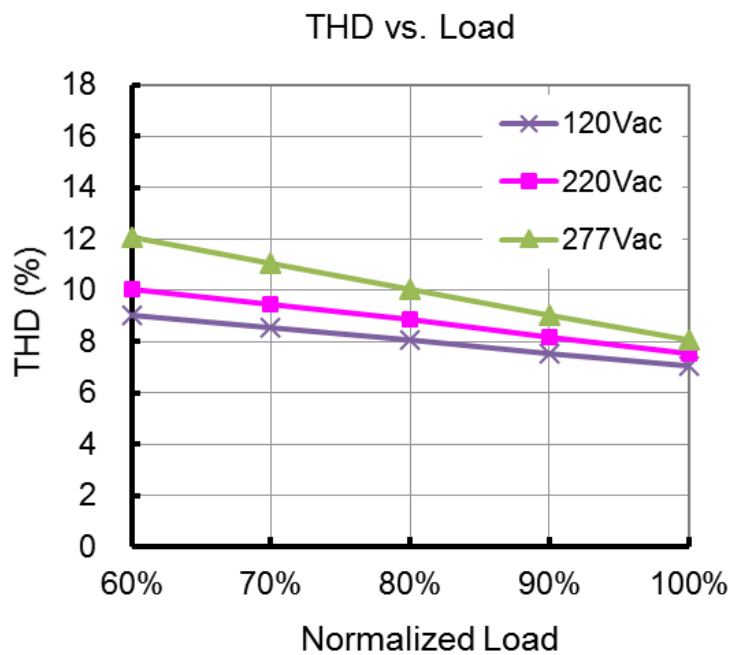
3. Lifetime vs. Case Temperature



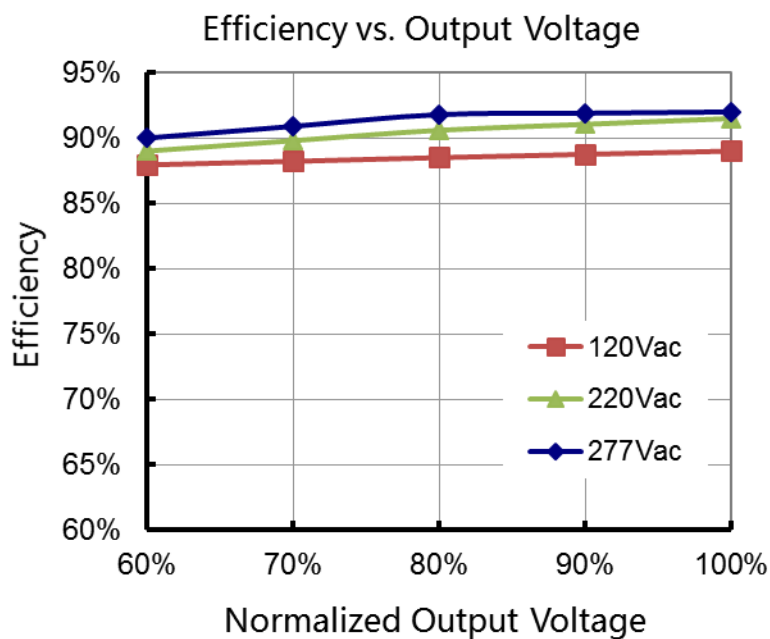
4. Power Factor vs. Load



5. THD vs. Load

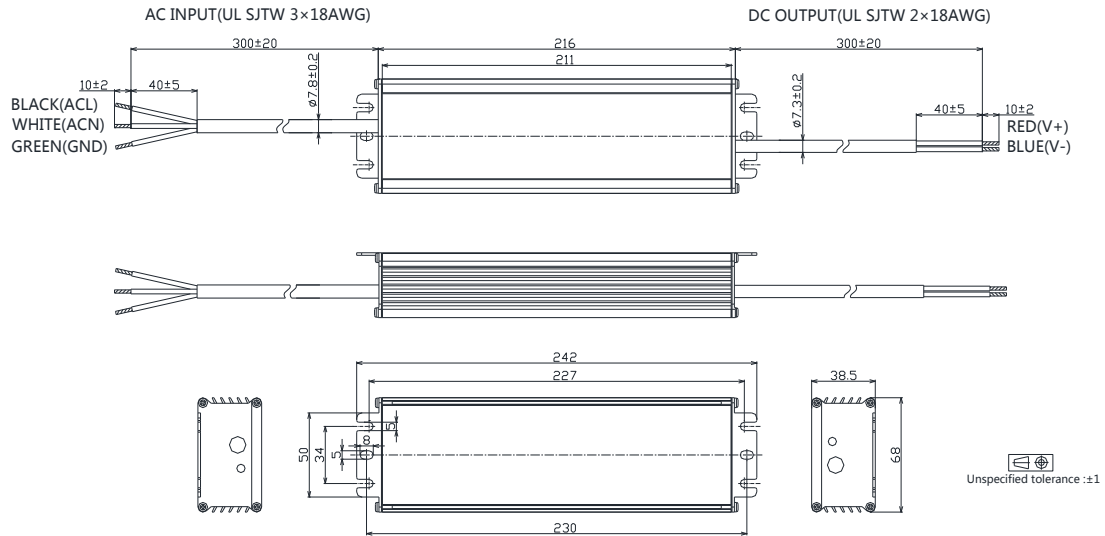


6. Efficiency vs. Load (1.05A Model)

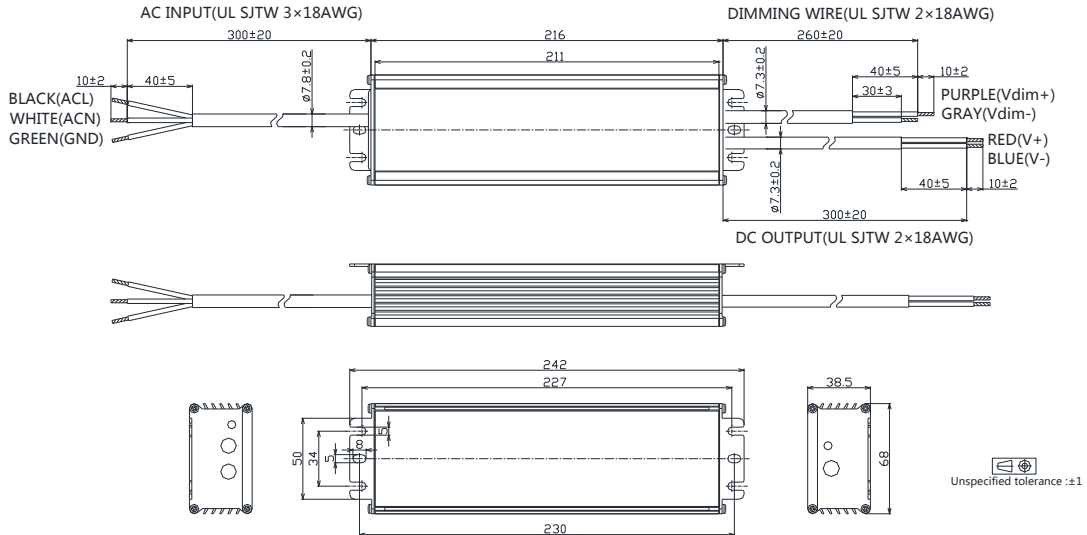


7. Mechanical Design (for example XV200W24 XYZ)

- XV200W24 NNU (UL Cable)



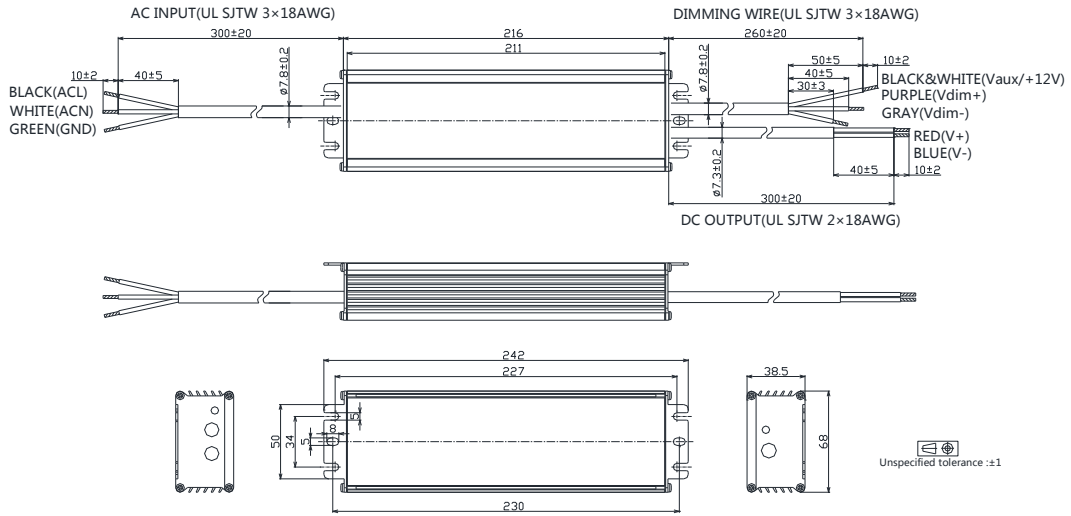
- XV200W24 DNU (UL Cable)



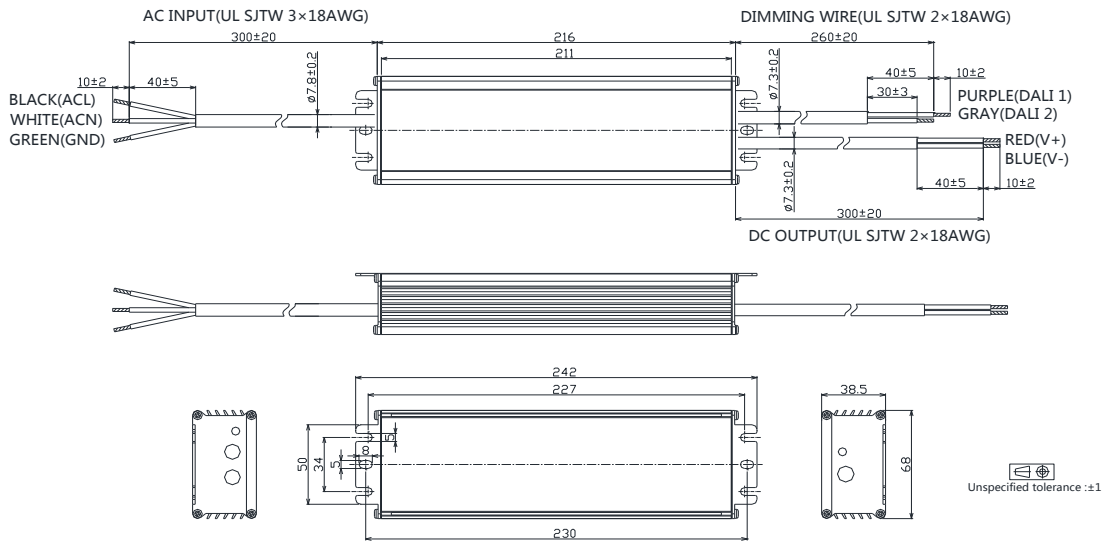


200W, 100-277Vac Input Constant Voltage LED Driver

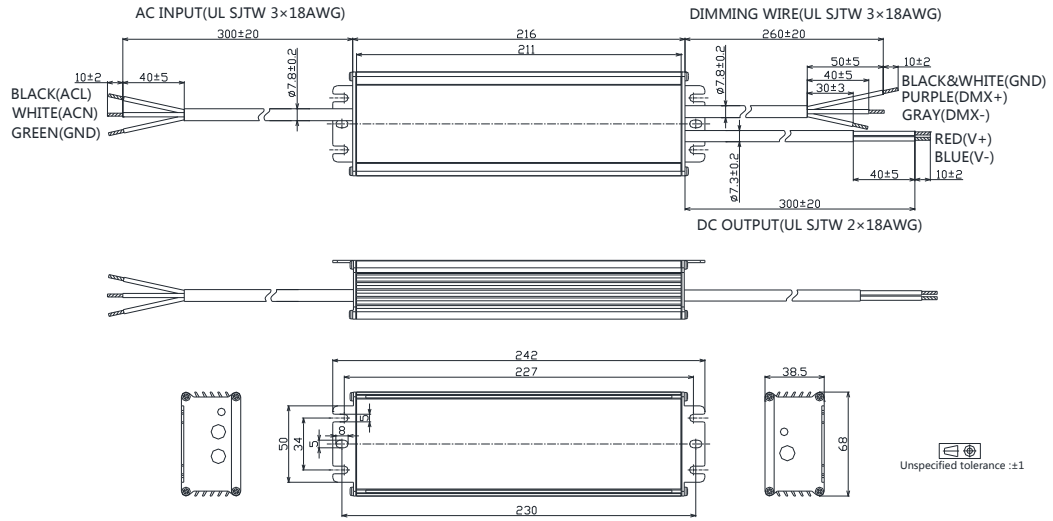
- XV200W24 ENU (UL Cable)



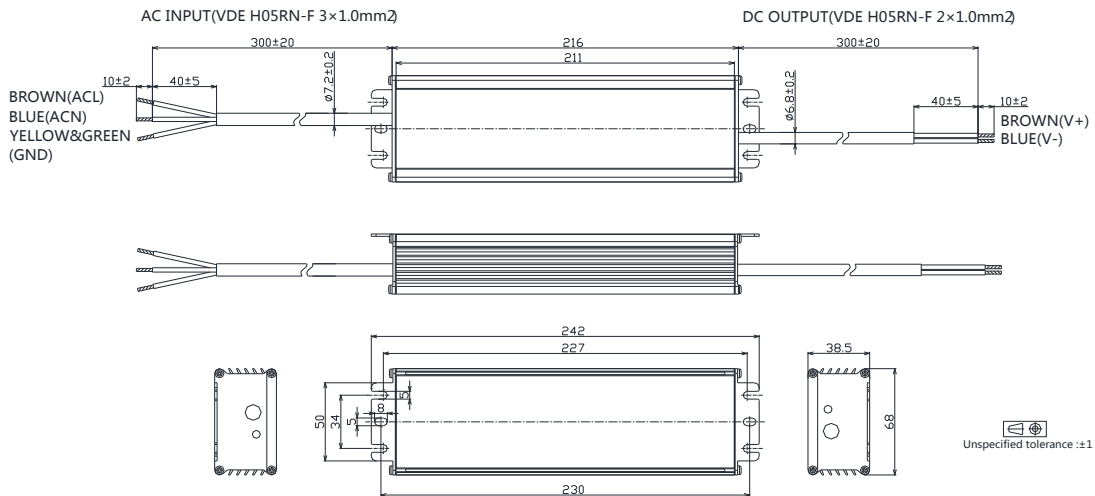
- XV200W24 ANU (UL Cable)



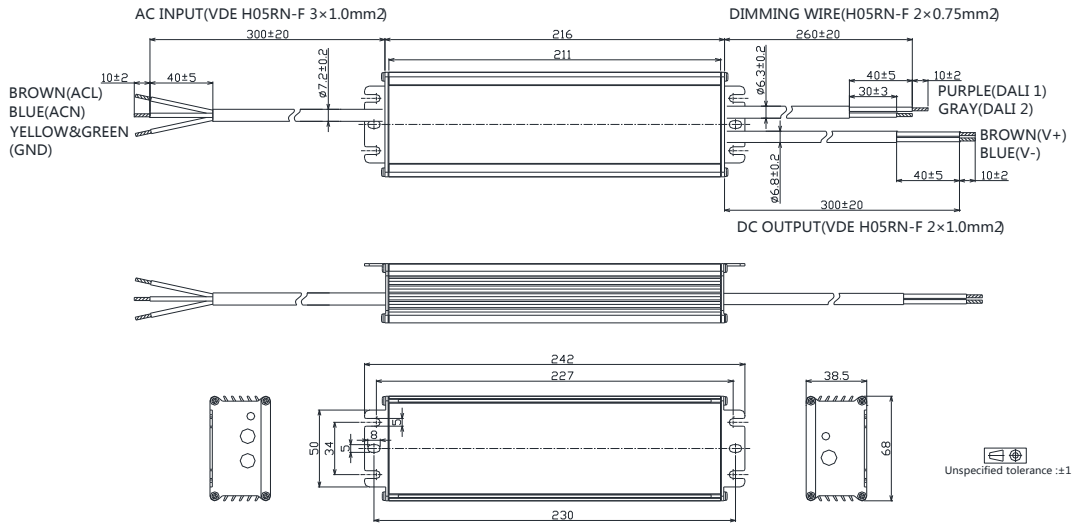
- XV200W24 MNU (UL Cable)



- XV200W24 NNS (VDE Cable)



- XV200W24 ANU (VDE Cable)



- XV200W24 MNU (VDE Cable)

