

Bright Green Connect PXS-240-V



Features

- Supply Voltage: 90~305Vac or 127-420Vdc, 380Vac for 2 hours
- Surge Immunity 10kV
- PWM Output Frequency >1kHz
- 100,000 Hour Life @ Tc=75°C
- 7 Year Warranty @ Tc<=75°C
- 0-10V/PWM/DALI (optional) Dimmable
- 2% Minimum Dimming Output
- Dim Off with 0.5W Standby
- 12V 300mA Auxiliary Power to Power
- Input Over Voltage Protection (Optional)
- ENEC/CB/CCC SELV Output
- UL Class P Version Available
- Safety according to EN 61347-1, 61347-2-3 61347-2-13, 62384

Model List

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min	Output Current Max	Certification
PXS-240-V012-XYZ	90 ~ 305 Vac	240 W	12V	0	20A	IEC/EN61347-1, IEC/EN61347-2-13
PXS-240-V024-XYZ	90 ~ 305 Vac	240 W	24V	0	10A	IEC/EN61347-1, IEC/EN61347-2-13
PXS-240-V048-XYZ	90 ~ 305 Vac	240 W	48V	0	5A	IEC/EN61347-1, IEC/EN61347-2-13

Options List

XY=	Dimming Method	Programmable	12Vaux	Dim-off
Blank	-	-	-	-
D	0-10V	-	-	✓
E	0-10V	-	✓	✓
A	DALI	-	-	✓
M	DMX	Set Address	-	✓

Z = Blank, VDE cable/Class I D, VDE cable/Class II (optional) U, UL cable (optional)

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Technical Data

Input Voltage	90~305Vac 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	2.2A max @ 120Vac & Full Load 1.1A max @ 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, 0.75mA max @ 240Vac 50Hz
Input Under Voltage	Shut down and auto-recovery
Input Over Voltage	*Optional: Shutdown @ 320Vac
Surge Protection	Line to line 6kV, line to ground 10kV
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	Lower the output current when $T_c \geq 105 \pm 10^\circ\text{C}$; Auto recovery when $T_c \leq 70 \pm 10^\circ\text{C}$
Operating Temperature	-40°C~+70°C; 10%RH~100%RH (No output derating. Please refer to Lifetime vs Tc curve)
Storage Temperature	-40°C~+85°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 Lifetime vs. Tc curve)
Case Temperature	90°C max, marked in the Tc point of label
Dimension 12V Models	8.82 x 2.68 x 1.63" (body), 9.88 x 2.68 x 1.63" (endcaps included) 225 x 68 x 38.5mm (body), 251 x 68 x 38.5mm (endcaps included)
Dimension 24V, 48V Models	8.46 x 2.66 x 1.52" (body), 9.52 x 2.66 x 1.52" (endcaps included) 216 x 67.5 x 38.5mm (body), 242 x 67.5 x 38.5mm (endcaps included)
Net Weight	1200g
Packing	12pcs/Carton/16.5kg, 500 x 370 x 335mm

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.

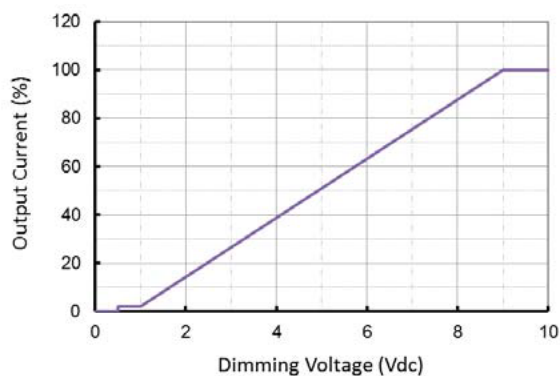
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Dimming

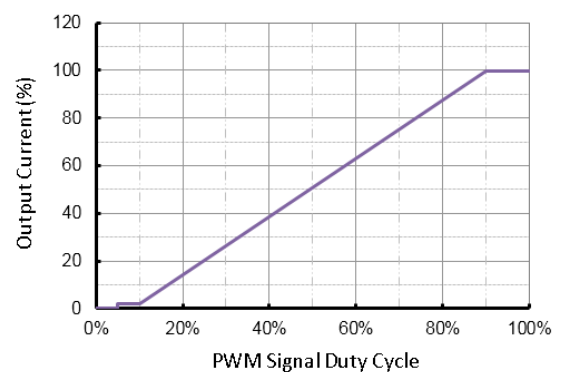
Parameter	Min.	Typ.	Max.
Vdim Sourcing Current	200uA	300uA	450uA
Vdim Allowed Input Voltage	-20V	-	20V
0-10V Dimming Range	2% (Vdim=1V)	Linear	100% (Vdim=9-10V)
PWM Dimming Range	2% (Duty=10%)	Linear	100% (Duty=90-100%)
Dim off threshold	0.4V or 4%	0.5V or 5%	0.6V or 6%
Dim on threshold	0.6V or 6%	0.7V 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

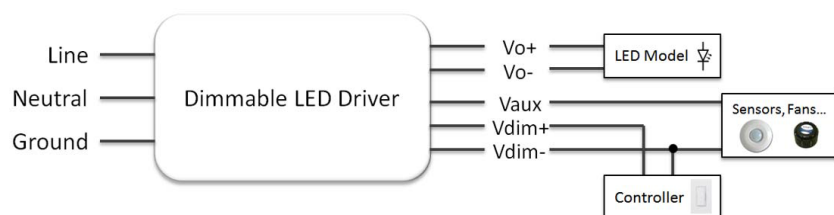
0-10V Dimming Curve



PWM Dimming Curve

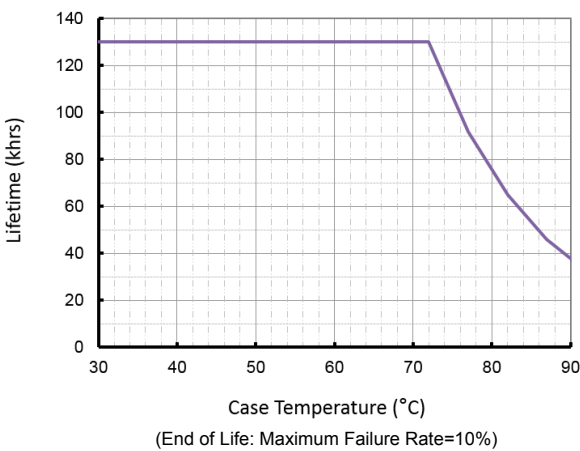


Dimming Wiring

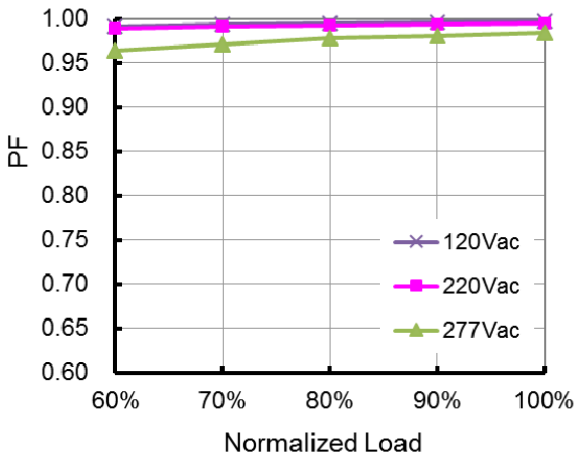


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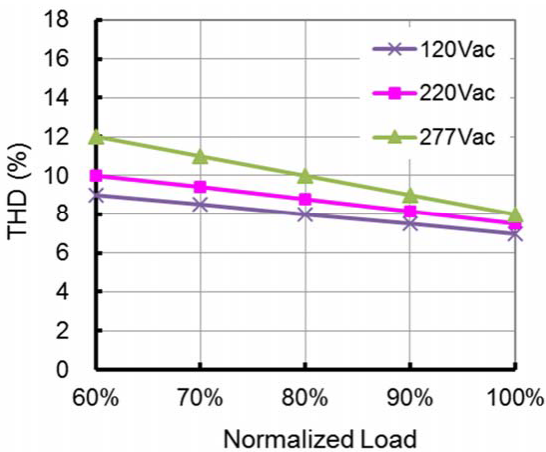
Lifetime vs. Case Temperature



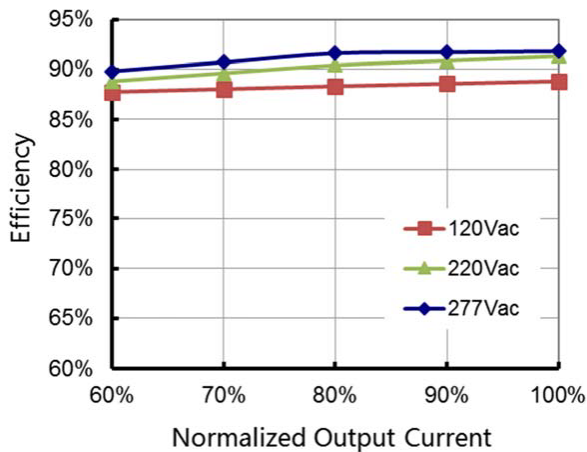
Power Factor vs. Load



THD vs. Load



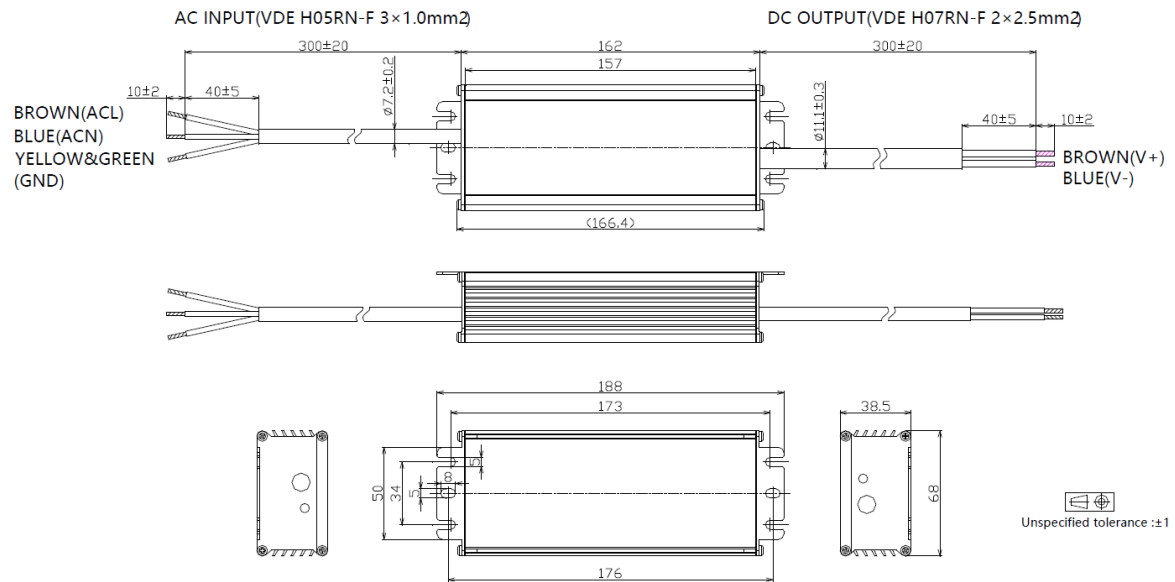
Efficiency vs. Load (24V Model)



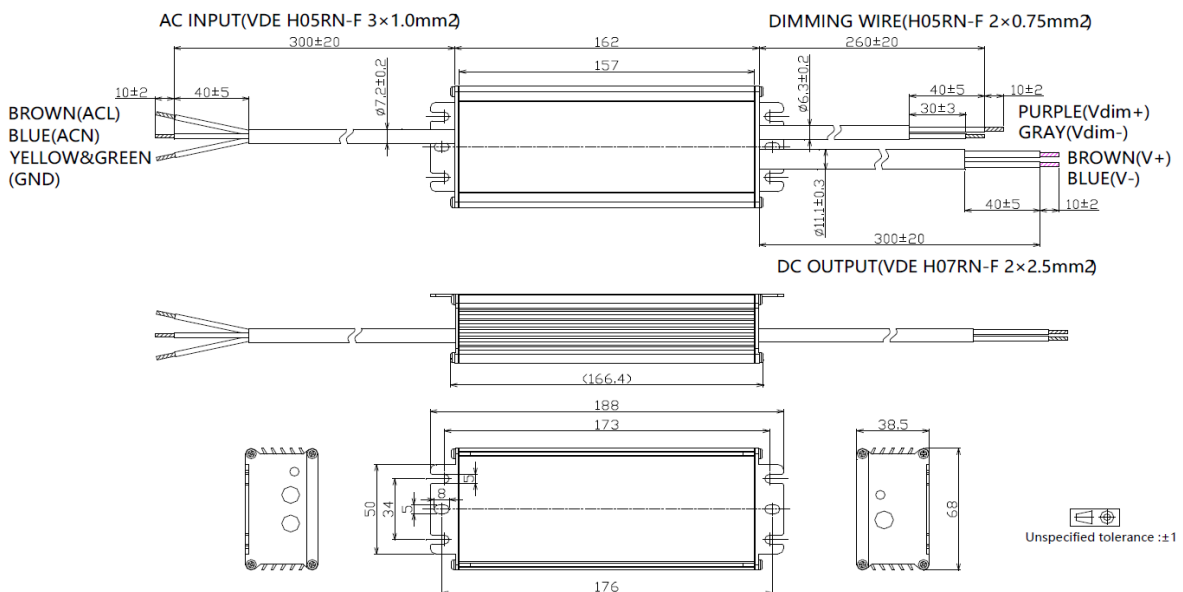
Bright Green Connect PXS- 240-V

Mechanical Design

PXS-240-V012



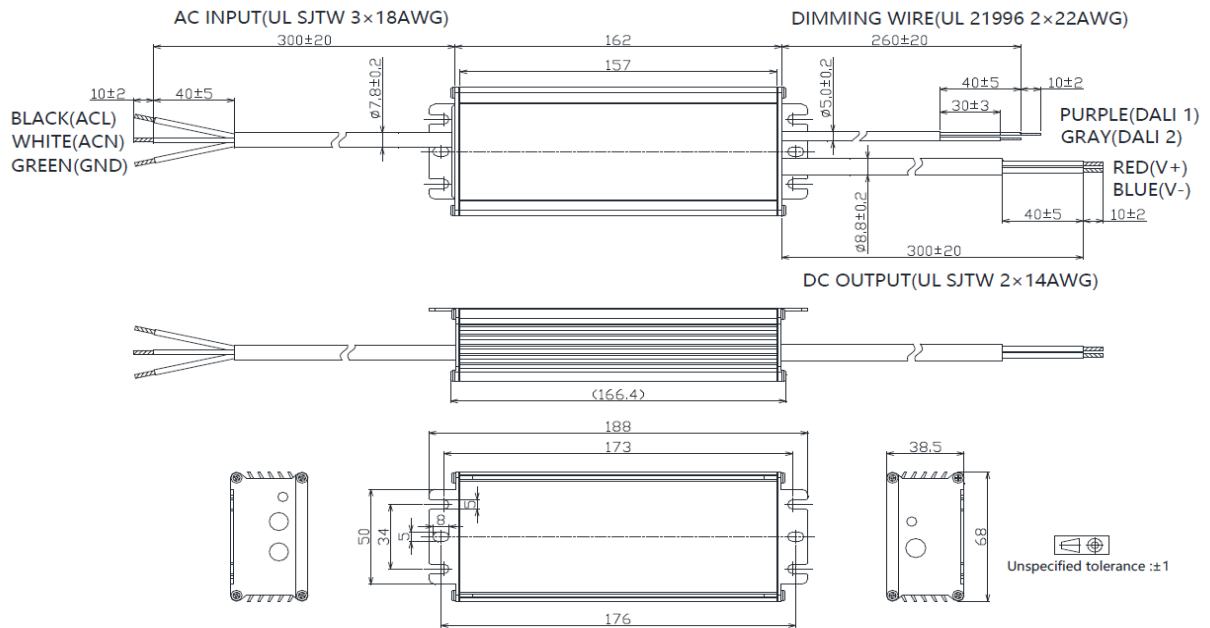
PXS-240-V012-D



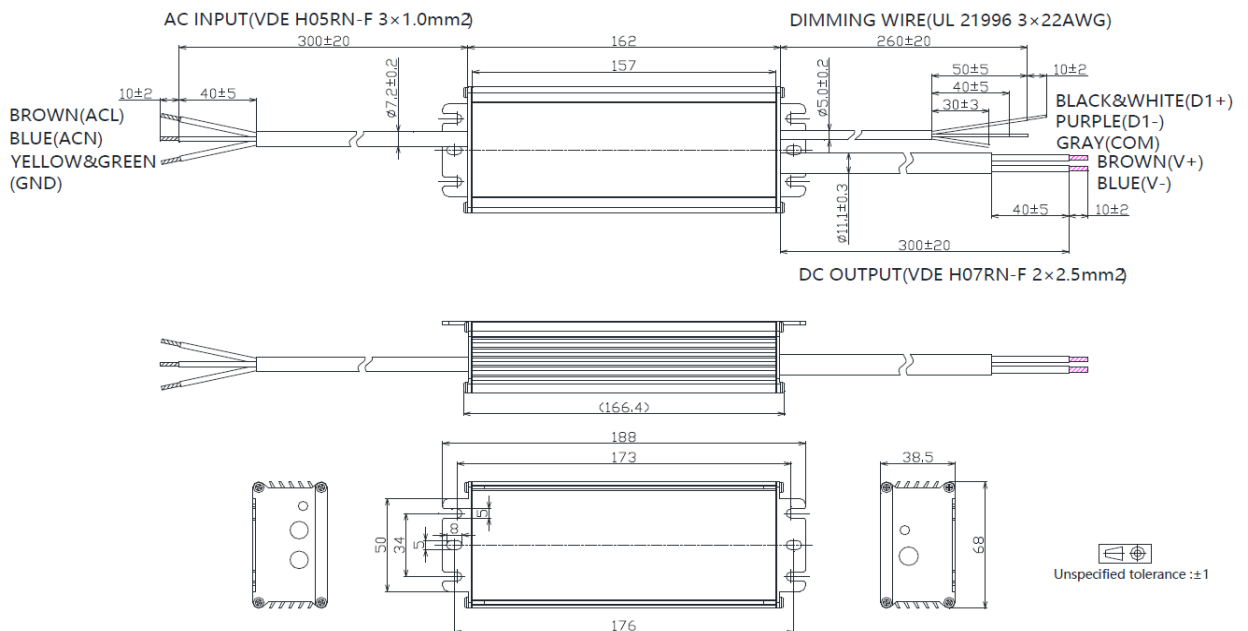
Bright Green Connect PXS- 240-V

Mechanical Design

PXS-240-V012-A



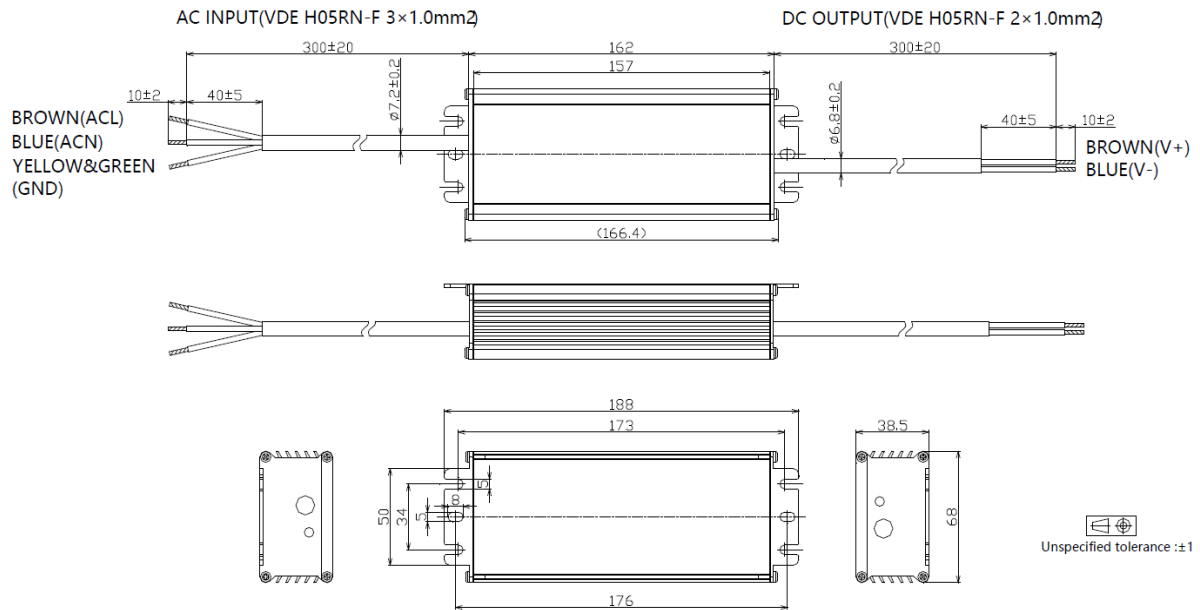
PXS-240-V012-M



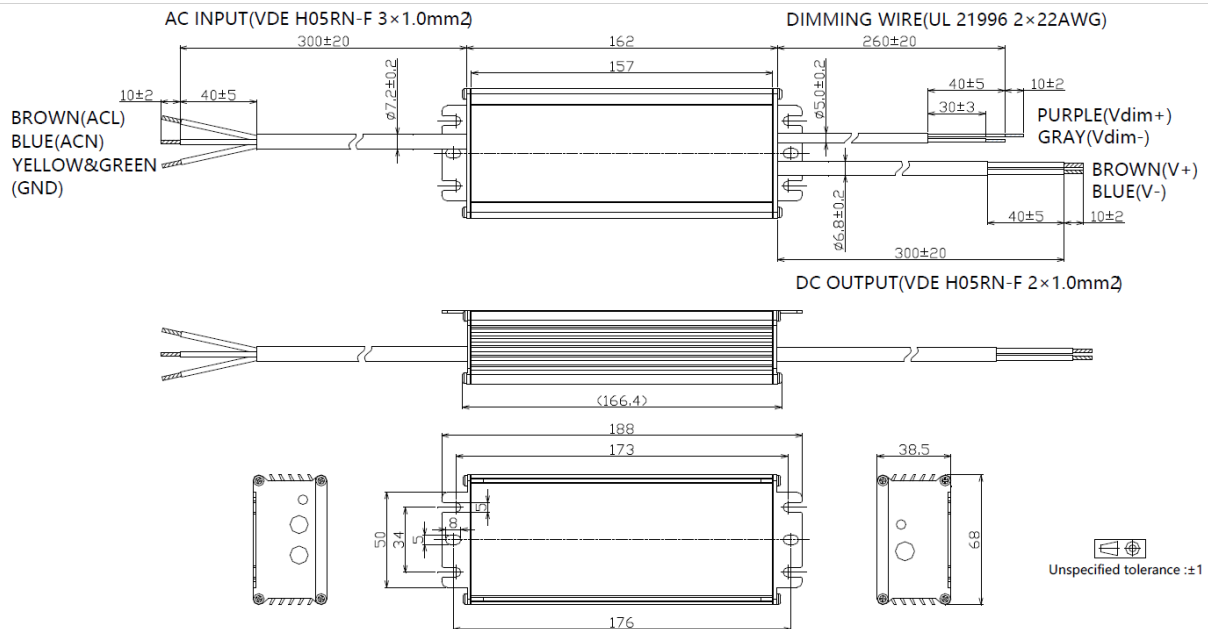
Bright Green Connect PXS-240-V

Mechanical Design

PXS-240-Vxxx



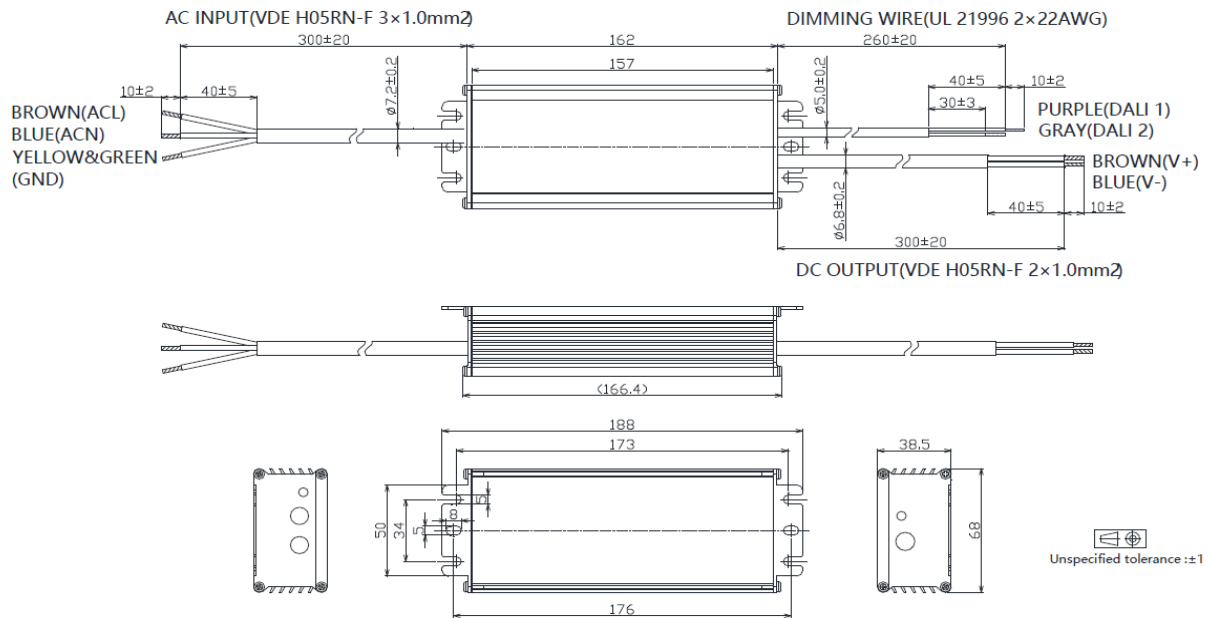
BLD-240-Vxxx-D



Bright Green Connect PXS- 240-V

Mechanical Design

PXS-240-Vxxx-A



PXS-240-Vxxx-M

