

Bright Green Connect PXS-075-C



Features

- Supply Voltage: 90~305Vac or 127-420Vdc
- 10kV Surge Immunity
- -55°C Ambient Startup (Optional)
- 100,000 Hour Life @ Tc=75°C
- 7 Year Warranty @ Tc<=75°C
- Contactless Programmability
- +/- 2% Output Current Accuracy (Programmable Model)
- 0-10V/PWM/Time/DALI/DMX Dimmable
- Dim Off with 0.5W Standby Power (Model Dependant)
- 12V 300mA Auxillary Power (Model Dependant)
- 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-075-C050-XYZ	90 ~ 305 Vac	75W	90-214Vdc	350mA	500mA	CB/ENEC/CCC
PXS-075-C070-XYZ	90 ~ 305 Vac	75 W	64-150Vdc	500mA	700mA	CB/ENEC/CCC
PXS-075-C105-XYZ	90 ~ 305 Vac	75 W	43-107Vdc	700mA	1050mA	CB/ENEC/CCC
PXS-075-C140-XYZ	90 ~ 305 Vac	75 W	32-71Vdc	1050mA	1400mA	CB/ENEC/CCC
PXS-075-C210-XYZ	90 ~ 305 Vac	75 W	21-54Vdc	1400mA	2100mA	CB/ENEC/CCC
PXS-075-C280-XYZ	90 ~ 305 Vac	75 W	16-36Vdc	2100mA	2800mA	CB/ENEC/CCC

Options List

XY=	Dimming Method	Programmable	12Vaux	Dim-off
Blank	-	-	-	-
D	0-10V	-	-	-
TC	Time	✓	-	-
DC	0-10V/PWM/Time	✓	-	-
EC	0-10V/PWM/Time	✓	✓	✓
A	DALI	-	-	✓
MC	DMX	✓	-	✓

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

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V18.1A



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Technical Data

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	0.8A max @ 120Vac & Full Load 0.4A 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 @ 220Vac 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
Current Accuracy	±5% Io
Ripple Current	Ip-p:5% Io max.
Setup Time	1.2s max.
Overshoot	10% Io max.
Output Over Voltage	120% Vo max, 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 $T_c \leq 70 \pm 10^\circ\text{C}$
Auxiliary Power (Vaux)	12V+/-5%, 300mA max.
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	≥320,000 hours, 75°C case temperature (MIL-HDBK-217F)
Lifetime	≥100,000 hours, 75°C case temperature (refer to Lifetime vs. Tc curve)
Case Temperature	90°C max, marked on the Tc point of label
Dimensions	5.16 x 2.66 x 1.32" (body), 6.22 x 2.66 x 1.32" (endcaps included) 131 x 67.5 x 33.5mm (body), 158 x 67.5 x 33.5mm (endcaps included)
Net Weight	650g
Packing	25pcs/Carton/17.3kg, 490 x 370 x 230mm

Notes:

Unless specified, all the test results are measured @25°C ambient

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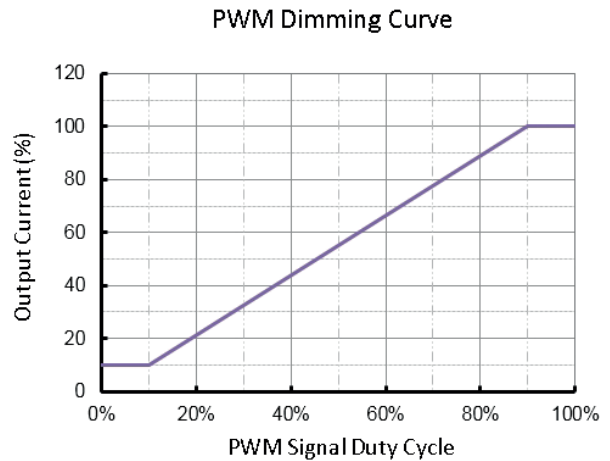
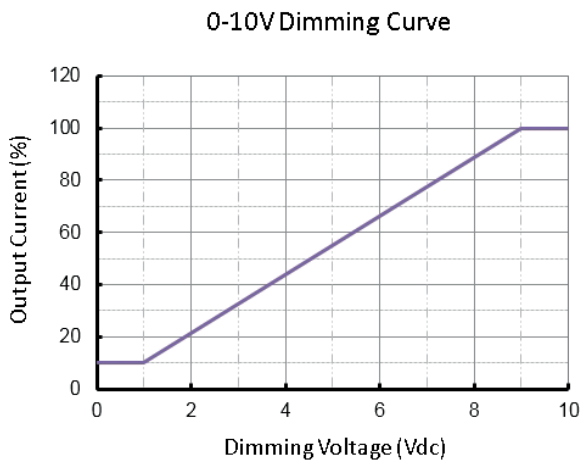
Dimming

Parameter	Min.	Typ.	Max.
Vdim Sourcing Current	200uA	300uA	450uA
Vdim Allowed Input Voltage	-20V	-	20V
0-10V Dimming Range	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

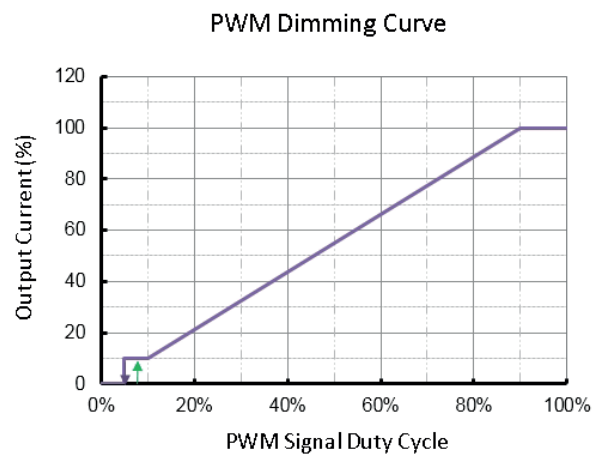
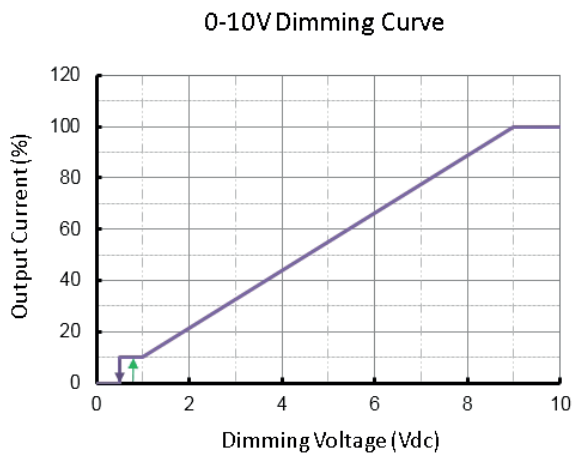
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Dimming Curve

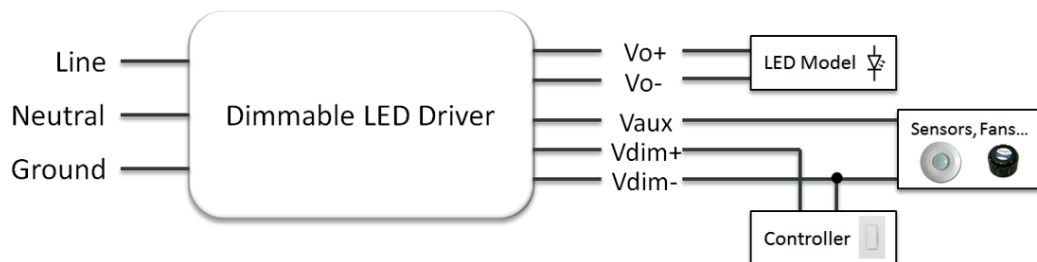
a. Without dim off



b. With dim off



Dimming Wiring



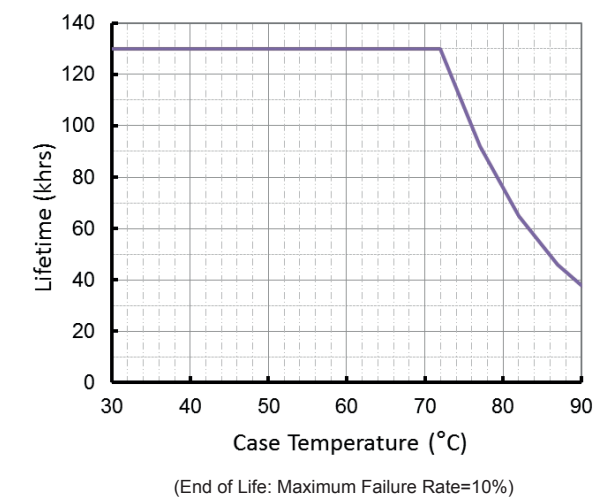
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Safety/EMC Compliance

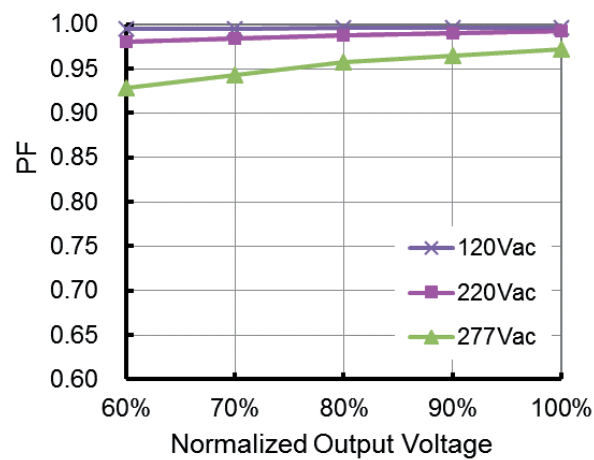
Safety Standard	Description
IEC 61347-1	Lamp control gear Part 1: general and safety requirements
IEC 61347-2-13	Lamp control gear Part 2-13: particular requirement for d.c. or a.c. supplied electronic control gear for LED modules
EMI Standards	Description
IEC 55015	Conducted emission test & radiated emission test
IEC 61000-3-2	Harmonic current emissions; Class C
IEC 61000-3-3	Voltage fluctuations & flicker
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

Bright Green Connect PXS-075-C

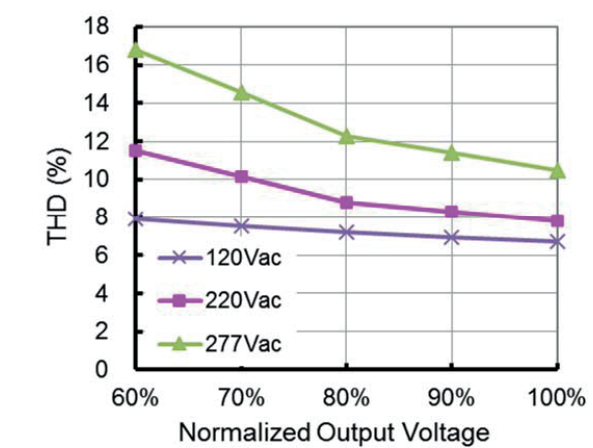
Lifetime vs. Case Temperature



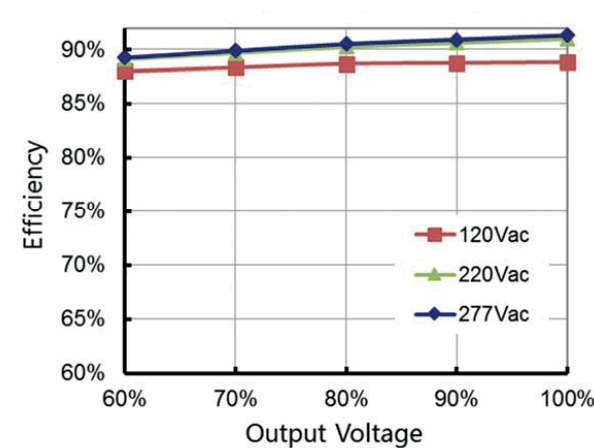
Power Factor vs. Load



THD vs. Load



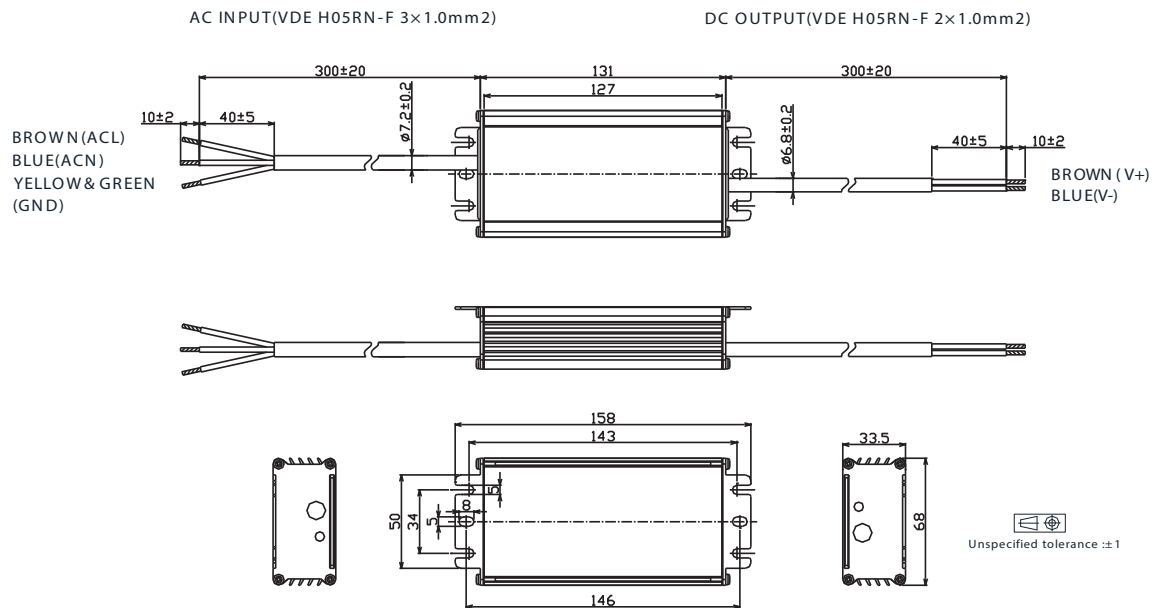
Efficiency vs. Load (1.05A Model)



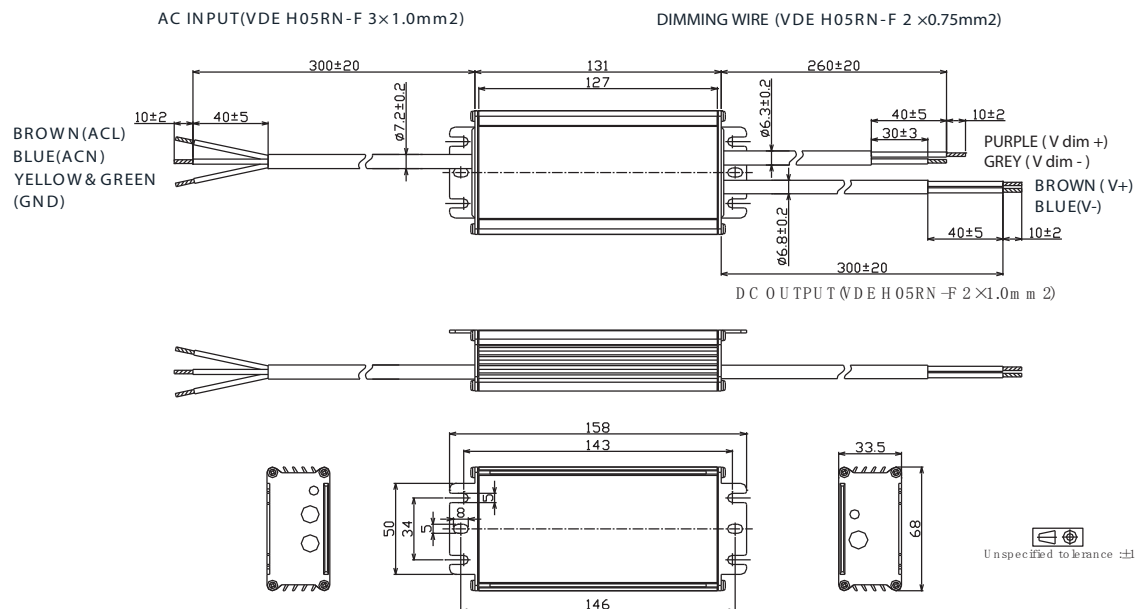
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Mechanical Design

PXS-075-Cxxx-Blank/TC

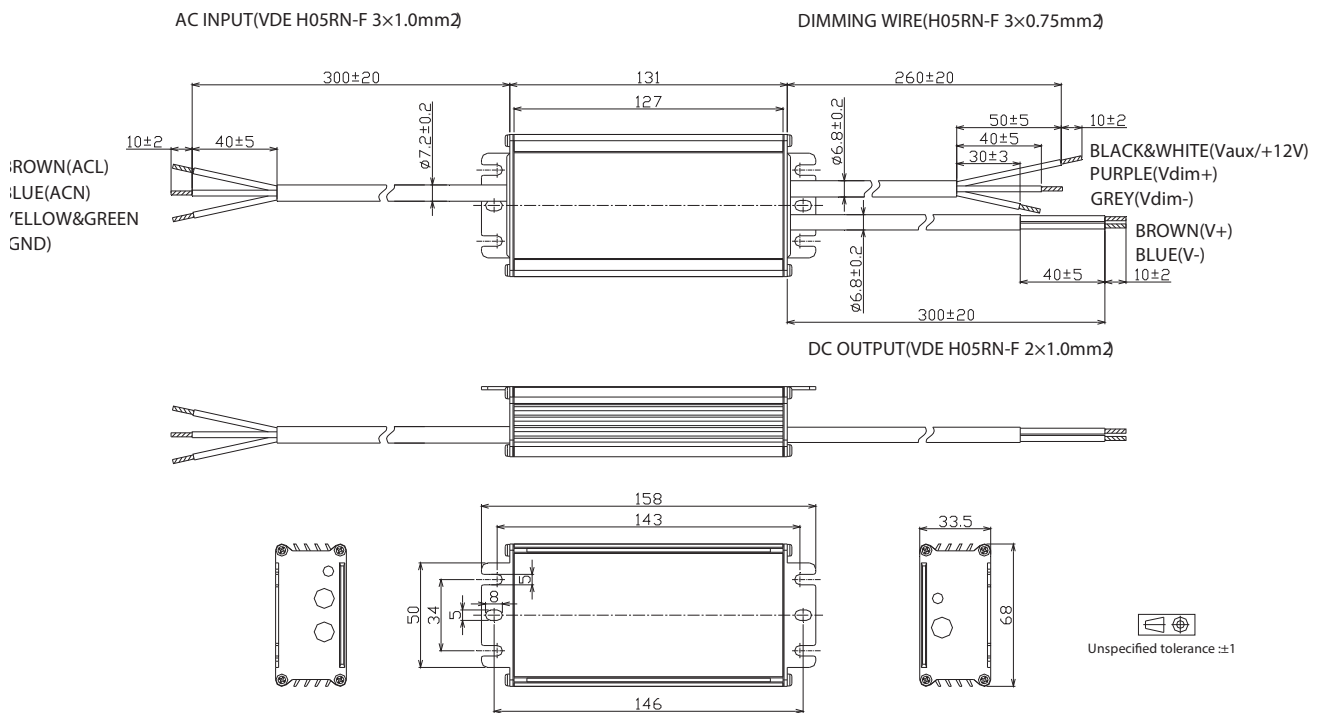


PXS-075-Cxxx-D/DC

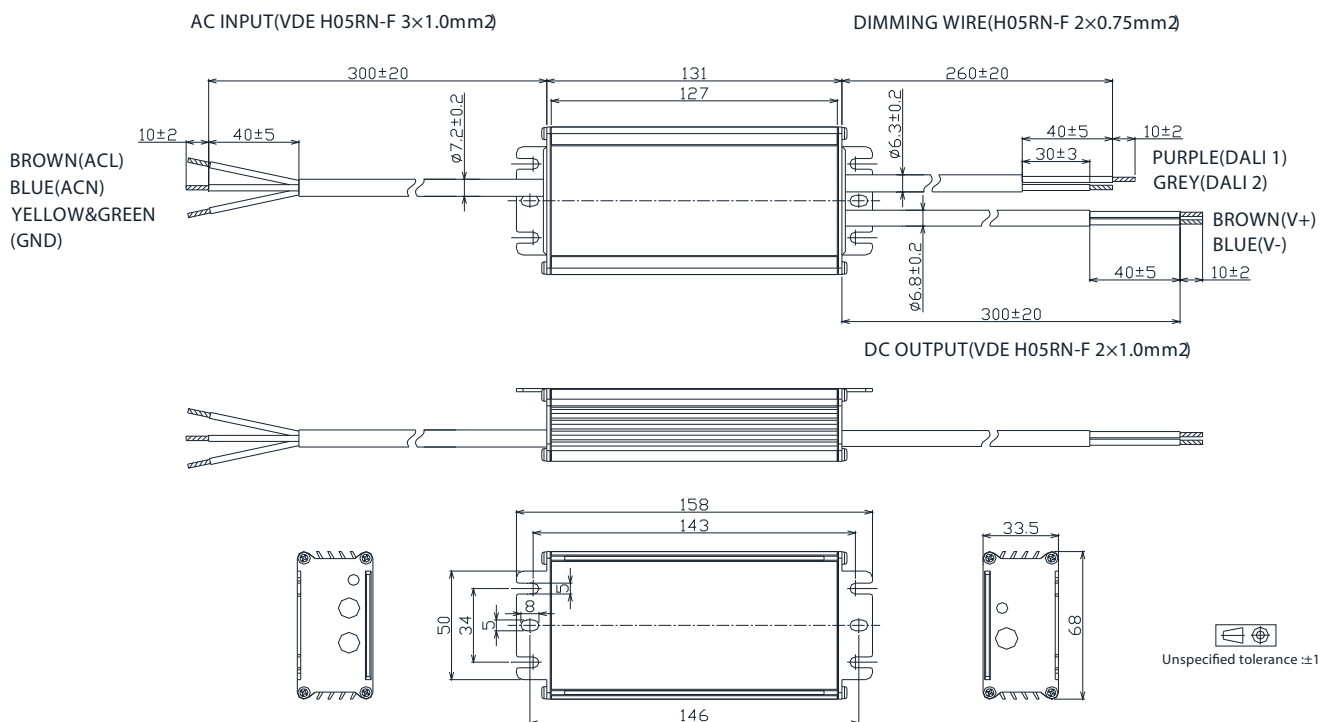


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PXS-075-Cxxx-EC



PXS-075-Cxxx-A



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PXS-075-Cxxx-MC

