NEXIVO
by KGP Electronics GmbH

Constant Voltage LED Driver

Constant Voltage Driver

Model:XSV Series

IP67 CE SELV

Model	Item Code	Rated Input Voltage	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage
XSV60W48-NX	159070	220-240VAC	1.25A	1.25A	≤72.00W	0.00-60.00W	≥0.95	88%	48V
XSV100W48-NX	159080		2.10A	2.10A	≤115.00W	0.00-100.00W		90%	
XSV160W48-NX	159090		3.34A	3.34A	≤180.00W	0.00-160.00W		92%	
XSV240W48-NX	159100		5.00A	5.00A	≤265.00W	0.00-240.00W		92%	
XSV400W48-NX	159110		8.34A	8.34A	≤435.00W	0.00-400.00W		93%	

*** Test result @230V, 50Hz, Full Load.**

1. Parameters

Category	Item	Technical Norm				
Features	Output Type	Constant Voltage				
	Dimming Type	NA				
	Output Features	Isolation SELV				
	IP Grade	IP67				
	Installation	Independent				
	Insulation Class	Class I				
Input	Rated Input Voltage	220-240VAC				
	Range of AC Input Voltage	176-264VAC				
	Range of DC Input Voltage	175-280VDC（EMI not evaluated）				
	Frequency	Rate:50/60Hz, Range:47~63Hz				
	Power Factor	≥0.95, 220-240VAC, Rated Load, see graphs				
	THD	≤10%, 230VAC，Rated Load, see graphs				
	No Load Power Consumption	≤0.5W, @230VAC				
	Inrush Current	Model	IP	IP (typ.)	Duration time	240Vac/50Hz, 90-degree phase, full load, cold start-up, duration time measure from 50%Ipk to 50%Ipk
		60W	<30A	26A	220us	
		100W	<50A	45A	250us	
		160W	<60A	56A	250us	
		240W	<80A	76A	320us	
		400W	<100A	88A	430us	

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	Connected quantity of 10A Breaker	60W	10pcs,10A type B / 16pcs 10A type C		
		100W	6pcs,10A type B / 10pcs 10A type C		
		160W	5pcs,10A type B / 8pcs 10A type C		
		240W	4pcs,10A type B / 6pcs 10A type C		
		400W	3pcs,10A type B / 4pcs 10A type C		
	Connected quantity of 16A Breaker	60W	16pcs,16A type B / 26pcs 16A type C		
		100W	10pcs,16A type B / 16pcs 16A type C		
		160W	8pcs,16A type B / 13pcs 16A type C		
		240W	6pcs,16A type B / 8pcs 16A type C		
		400W	4pcs,16A type B / 5pcs 16A type C		
Output	Output Voltage	48VDC±3%			
	Rated Load Range	60W	24-60W		
		100W	30-100W		
		160W	48-160W		
		240W	72-240W		
		400W	120-400W		
	Output Voltage Ripple	<480mVPK-PK (0.5%)			
	Line Regulation	±1%			
	Load Regulation	±2%			
	Overshoot	<105%Vo			
	Start-up Time	<0.5S (220-240VAC)			
	Efficiency	60W	≥86%	88% typ.	230VAC, Rated Load, at output terminals, see graphs
		100W	≥90%	92% typ.	
		160W	≥90%	92% typ.	
		240W	≥90%	92% typ.	
		400W	≥91%	93% typ.	
Protection	Short Circuit Protection	Auto Recovery			
	Over Current Protection	120%-200%Io, Auto Recovery			
	Over Voltage Protection	120%-150%Vo, Auto Recovery			
	Over Temperature Protection	90<Tc<110℃, Auto Recovery			
	Insulation voltage	I/P to O/P,3KVac/5mA/1min			
	Insulation resistance	>100M ohm @ 500VDC			
	Leakage current	I/P to O/P < 250μA			
Environment	Ta/Operation Temperature	-25….+50℃			
	Ts/Storage Temperature	-40….+85℃			
	Tc/Enclosure Temperature For Safety	60W/100W	75℃		
		160W	85℃		
		240W/400W	90℃		
	Humidity	5%....85%RH			
	Atmosphere	86-108KPa			
Standards	Certification	CE/ENEC			
	Safety Standards	EN61347-1:2015, EN61347-2-13:2014/A1:2017,EN62493:2015, AS61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1			

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	EMC Standards	EN55015:2013/A1:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN61547:2009	
	Performance	EN62384	
	Surge	L-N:4KV, L/N-PE:6KV	
Others	RoHS	2011/65/EU	
	MTBF	≥250KHours,Ta=25℃(MIL-HDBK-217F)	
	Audible Noise	<25dB @ 10cm distance, 20dB background	
	Life Time	60W/100W/160W	≥100K Hrs 65℃case temperature, refer to life vs. Tc curve
		240W/400W	≥100K Hrs 75℃case temperature, refer to life vs. Tc curve
	Warranty	5years	
	Dimensions（L*W*H）	60W	275*30*21MM (body), 290*30*21MM (endcaps included)
		100W	305*30*21MM (body), 320*30*21MM (endcaps included)
		160W	335*30*21MM (body), 350*30*21MM (endcaps included)
		240W	385*30*21MM (body), 400*30*21MM (endcaps included)
		400W	385*60*22MM (body), 400*60*22MM (endcaps included)
	Wiring	Input	H05RN-F/3X1.0mm2, Brown/Blue/(Yellow/Green)
		Output	H05RN-F/2X1.0mm2, Red/Black

Remark:
1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.
2. LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
3. Output ripple should be measured at the output end which has with 0.1uF/100V ceramic capacitance and 10uF/100V Aluminum capacitance connected in parallel. Measured using oscilloscope with bandwidth limited to 20MHz.

Model	Cable selection	Distance
XSV60W48-NX	0.75mm²	30M
	1.00mm²	50M
XSV100W48-NX	1.00mm²	50M
XSV160W48-NX	1.00mm²	50M
XSV240W48-NX	1.00mm²	50M
XSV400W48-NX	1.50mm²	50M

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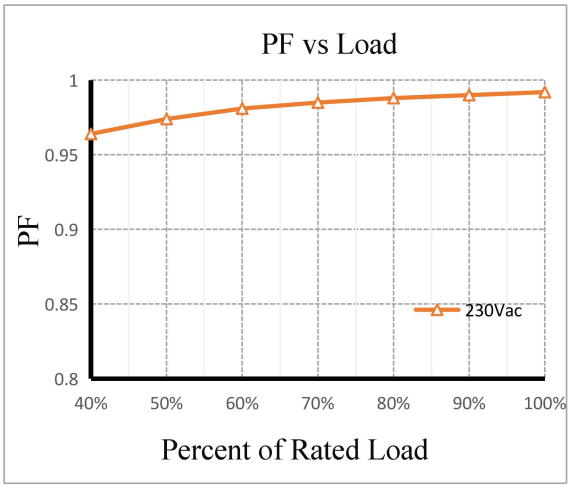
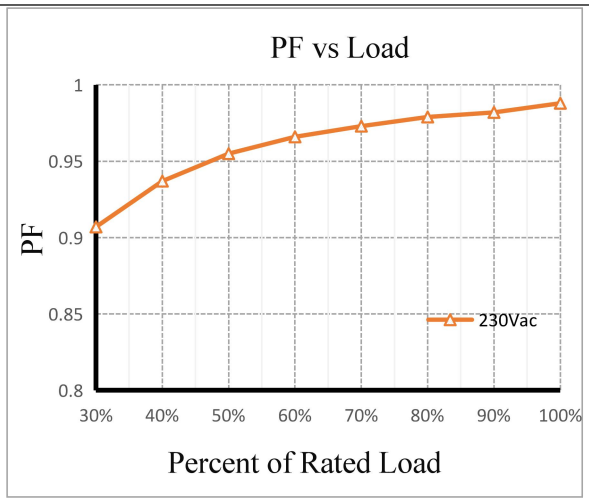
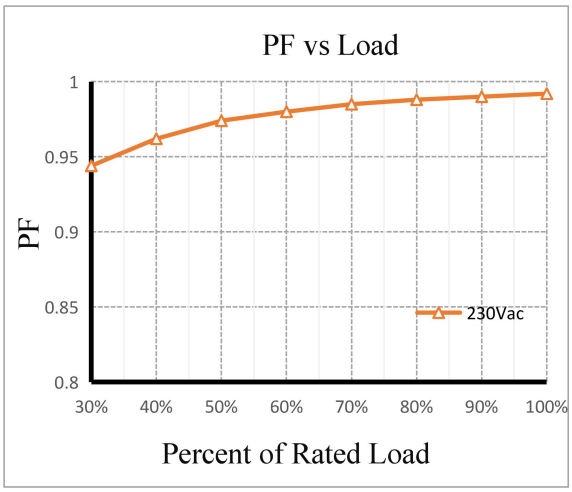
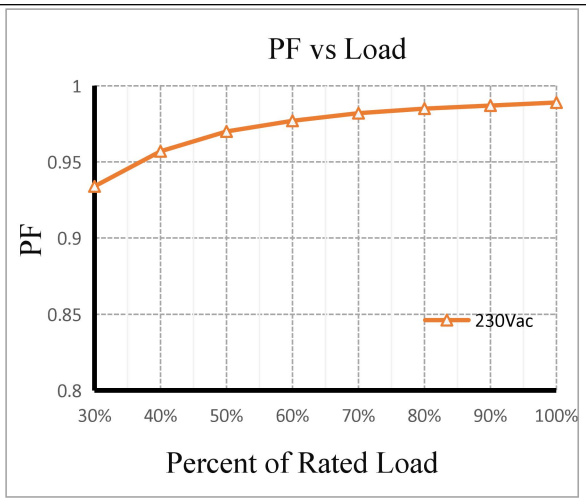
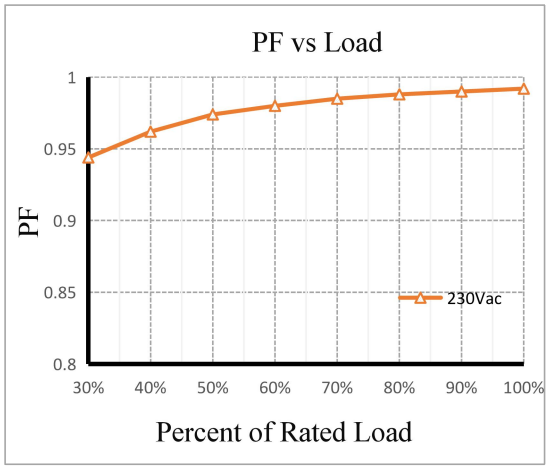
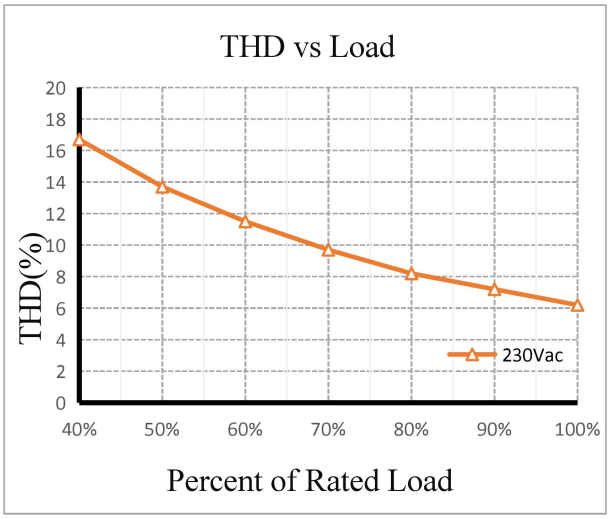
2. Graph

PF VS LOAD Curve

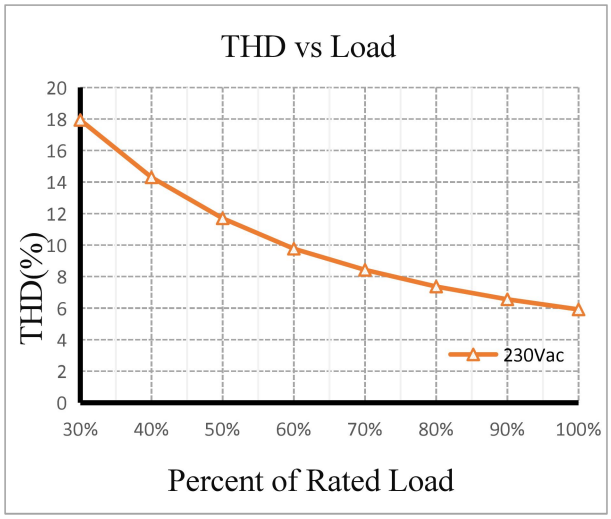
60W	100W
	
160W	**240W**
	
400W	
	

THD VS LOAD Curve

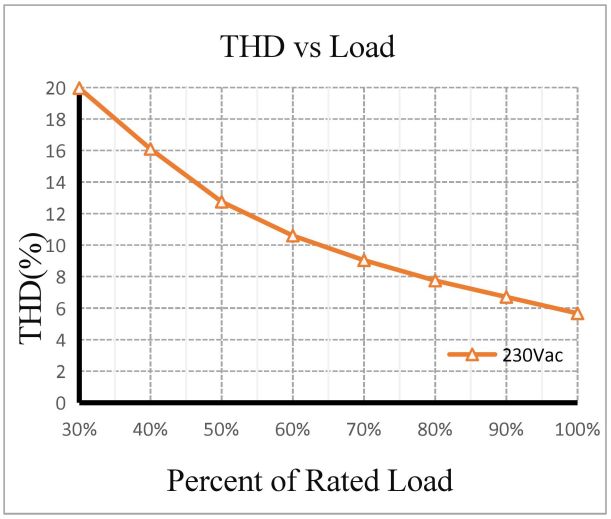
60W



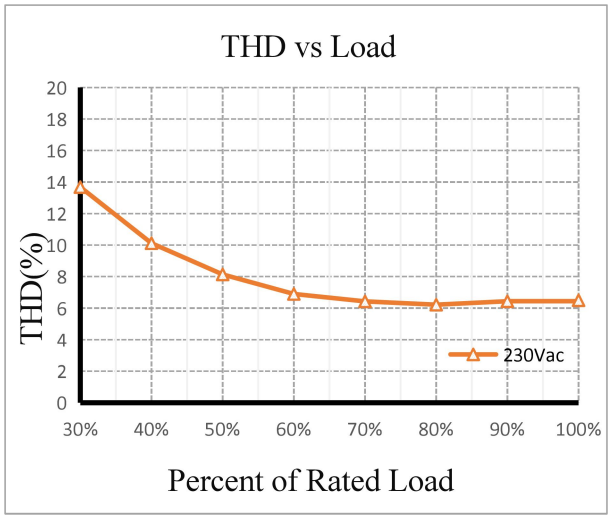
100W



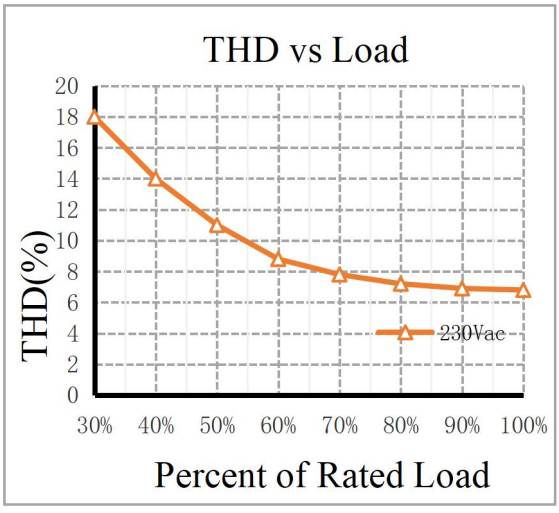
160W



240W



400W



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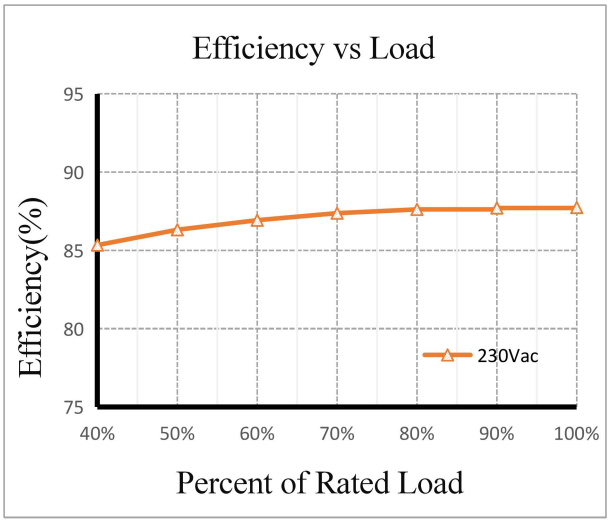
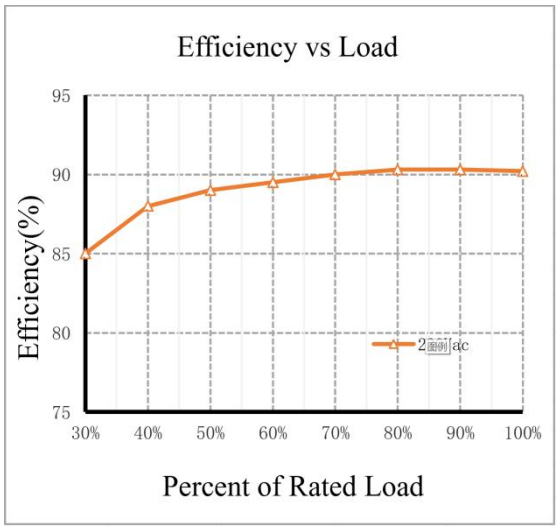
Efficiency VS LOAD Curve

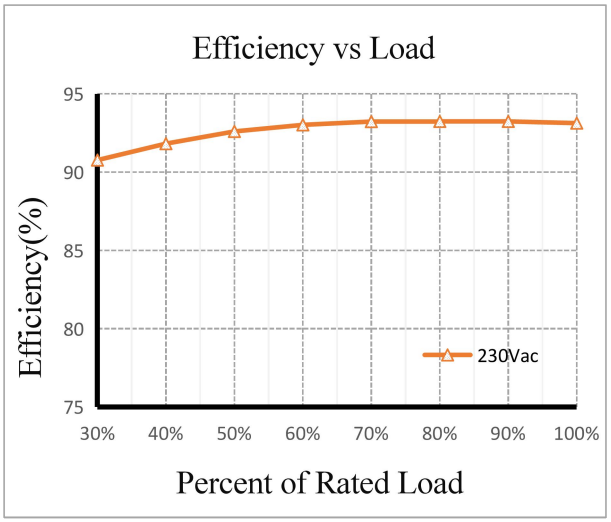
60W



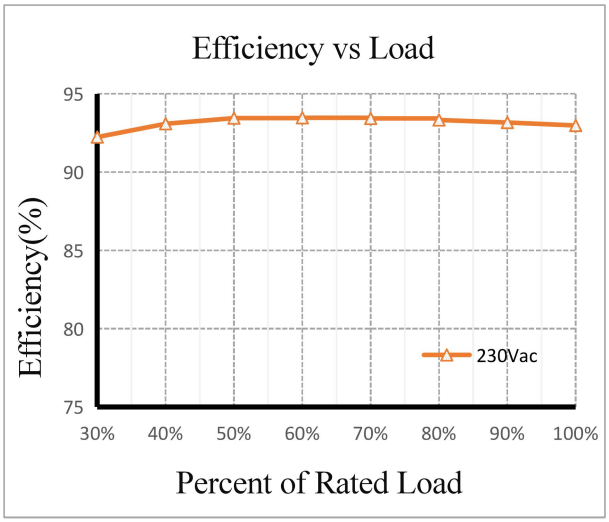
100W



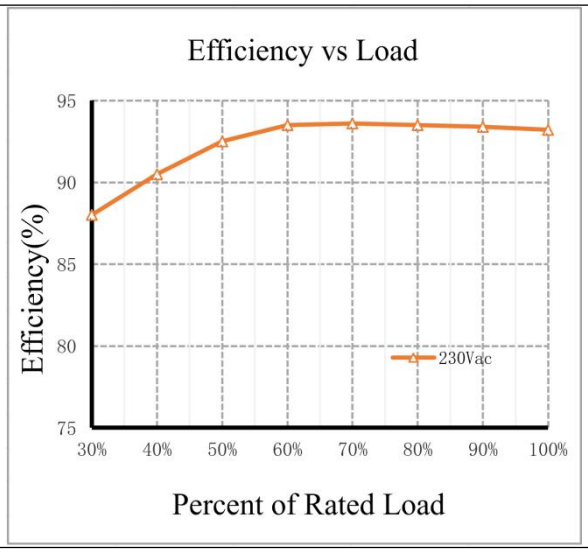
160W



240W



400W



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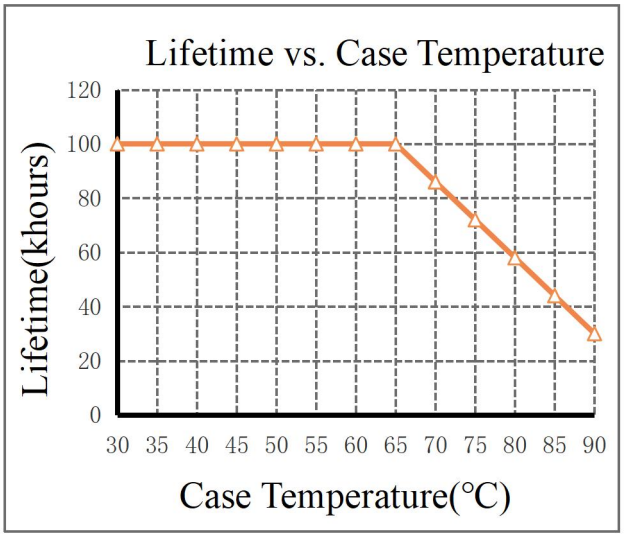
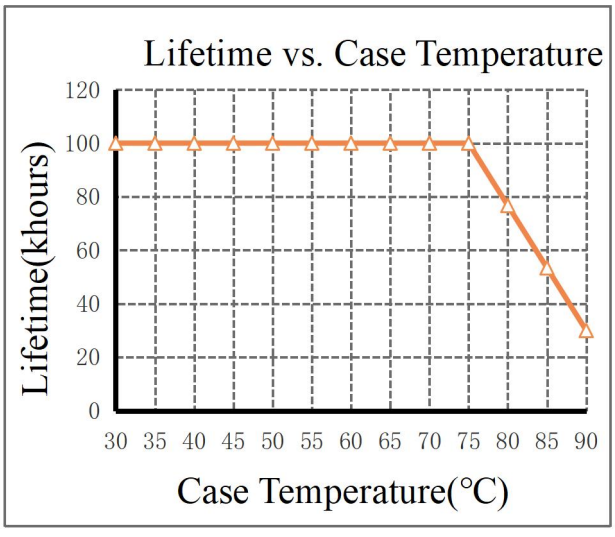
Lifetime vs. Case Temperature

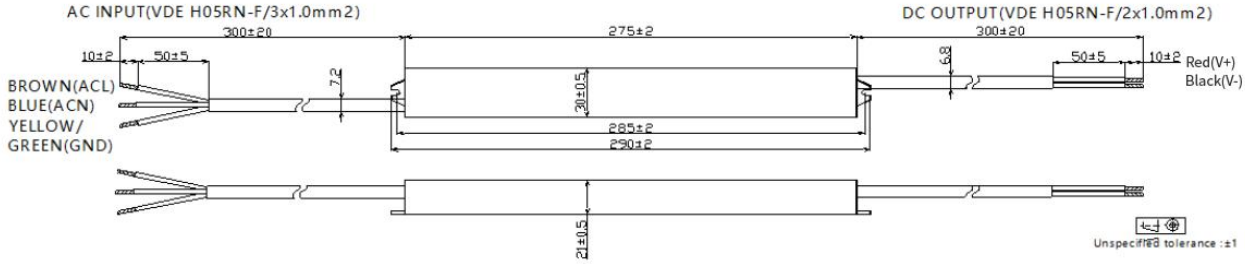
30W/60W/100W/160W	240W/400W
	

(End of Life: Maximum Failure Rate=10%)

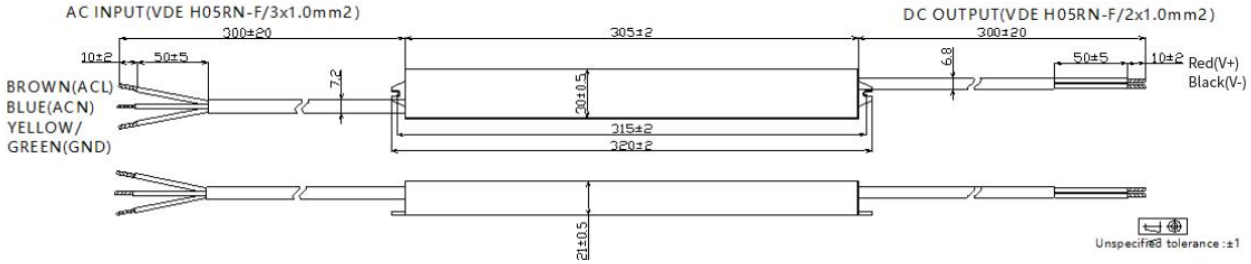
3. Label

4. Dimension （Unit：mm）

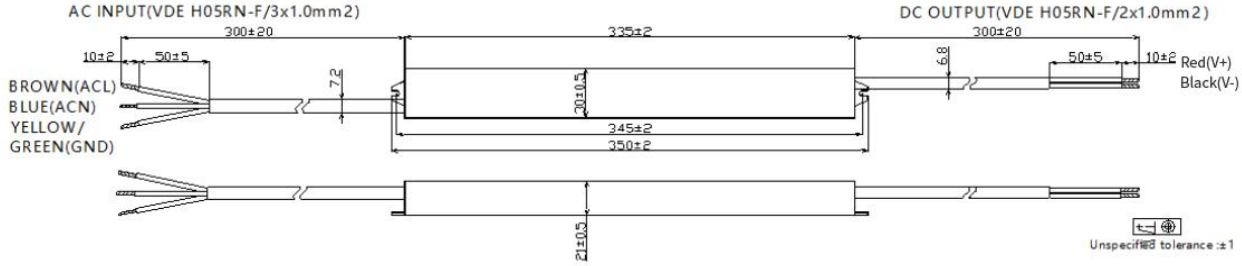
XSV60W48-NX



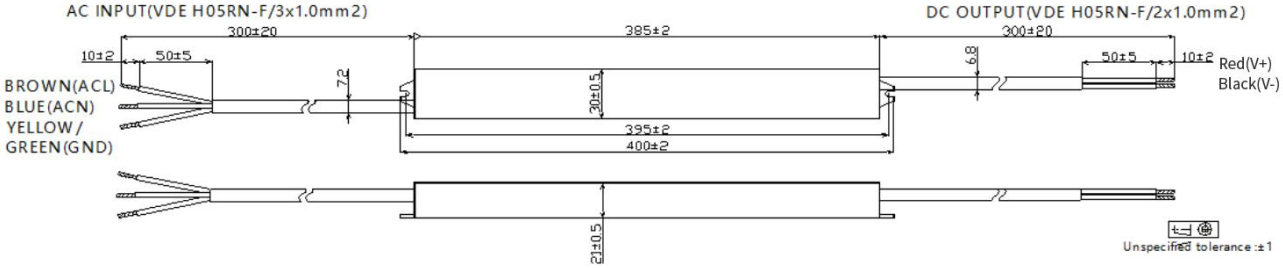
XSV100W48-NX



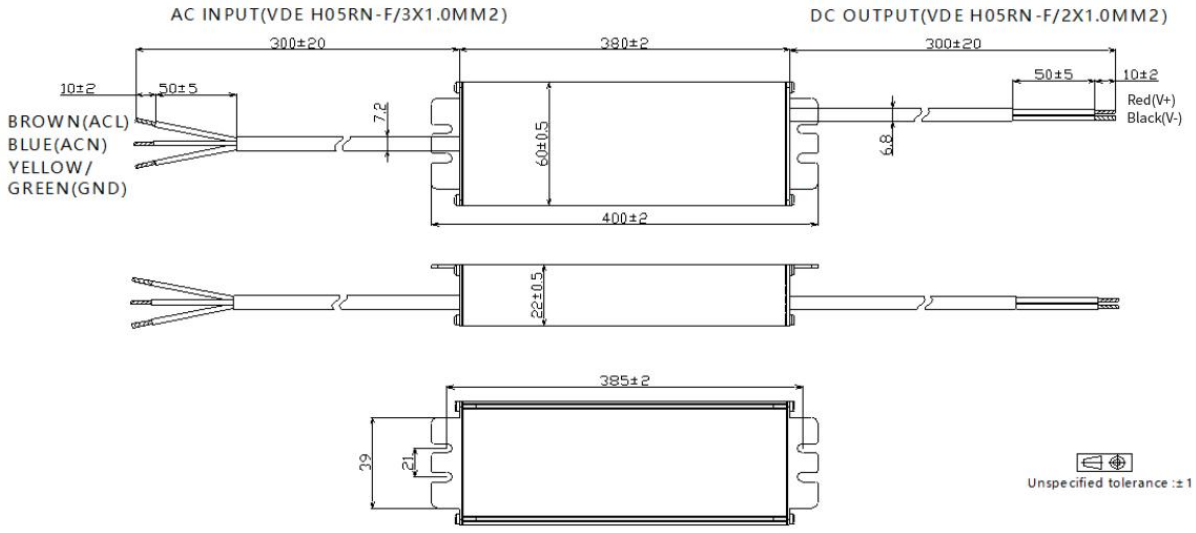
XSV160W48-NX



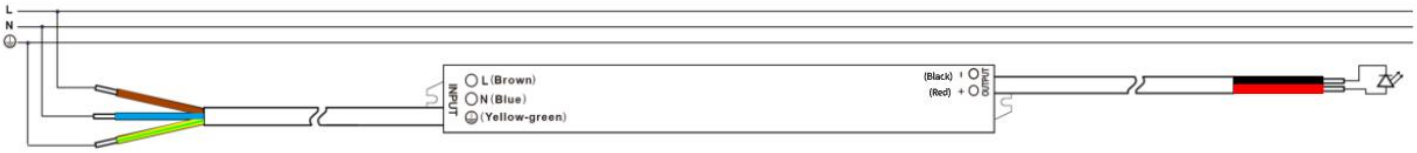
XSV240W48-NX



XSV400W48-NX



5. Wiring Diagram



The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

6. Packing information

Model	Carton L*W*H(cm)	Pcs/ Carton	Net weight/ Pcs(g)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
XSV60W48-NX	34*29*20	30	390	11.70	13.30
XSV100W48-NX	39*29*20	30	420	12.60	14.30
XSV160W48-NX	39*29*20	30	470	14.10	15.80
XSV240W48-NX	44*29*14	20	530	10.60	11.90
XSV400W48-NX	44*29*14	12	1050	12.60	13.60

7. Ordering data

Model No	Item code
XSV60W48-NX	159070
XSV100W48-NX	159080
XSV160W48-NX	159090
XSV240W48-NX	159100
XSV400W48-NX	159110

8. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release
2026.16.06	V0.02	Add cable section and distance information
2026.15.09	V0.03	Delete TUV mark on label