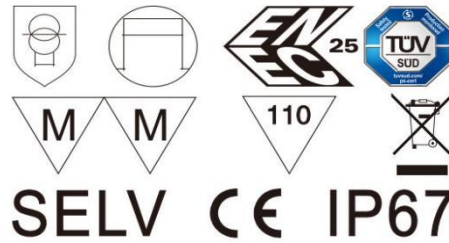




Constant Voltage LED Driver

Constant Voltage Driver

Model:XSV Series



Model	Item Code	Rated Input Voltage	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage
XSV30W24-NX	158950	220-240VAC	1.25A	≤0.20 A	≤36.00W	0.00-30.00W	≥0.95	86%	24V
XSV60W24-NX	158960		2.50A	≤0.40 A	≤72.00W	0.00-60.00W		88%	
XSV100W24-NX	158970		4.17A	≤0.60 A	≤115.00W	0.00-100.00W		90%	
XSV160W24-NX	158980		6.67A	≤0.90 A	≤180.00W	0.00-160.00W		92%	
XSV240W24-NX	158990		10.00A	≤1.50 A	≤265.00W	0.00-240.00W		92%	
XSV400W24-NX	159000		16.67A	≤2.30 A	≤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%I _{pk} to 50%I _{pk}	
		30W	<30A	25A	200us		
		60W	<30A	26A	220us		
		100W	<50A	45A	250us		
		160W	<60A	56A	250us		
		240W	<80A	76A	320us		
		400W	<100A	88A	430us		

	Connected quantity of 10A Breaker	30W	10pcs,10A type B / 16pcs 10A type C		
		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	30W	16pcs,16A type B / 26pcs 16A type C		
		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	24VDC±3%			
	Rated Load Range	30W	12-30W		
		60W	24-60W		
		100W	30-100W		
		160W	48-160W		
		240W	72-240W		
		400W	120-400W		
	Output Voltage Ripple	<240mV _{PK-PK} (0.5%)			
	Line Regulation	±1%			
	Load Regulation	±2%			
	Overshoot	<105%Vo (<110%Vo, only for 30W)			
	Start-up Time	<0.5S (220-240VAC)			
	Efficiency	30W	≥84%	86% typ.	230VAC, Rated Load, at output terminals, see graphs
		60W	≥86%	88% typ.	
		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	30W/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	
	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°C (MIL-HDBK-217F)	
	Audible Noise	<25dB @ 10cm distance, 20dB background	
	Life Time	30W/60W/100W/ 160W	≥100K Hrs 65°C case temperature, refer to life vs. Tc curve
		240W/400W	≥100K Hrs 75°C case temperature, refer to life vs. Tc curve
	Warranty	5years	
	Dimensions (L*W*H)	30W	235*30*21MM (body), 250*30*21MM (endcaps included)
		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/3X1.0mm ² , Brown/Blue/(Yellow/Green)
		Output	H05RN-F/2X1.0mm ² , Red/Black
	Output Cable Length	Max. 3M	

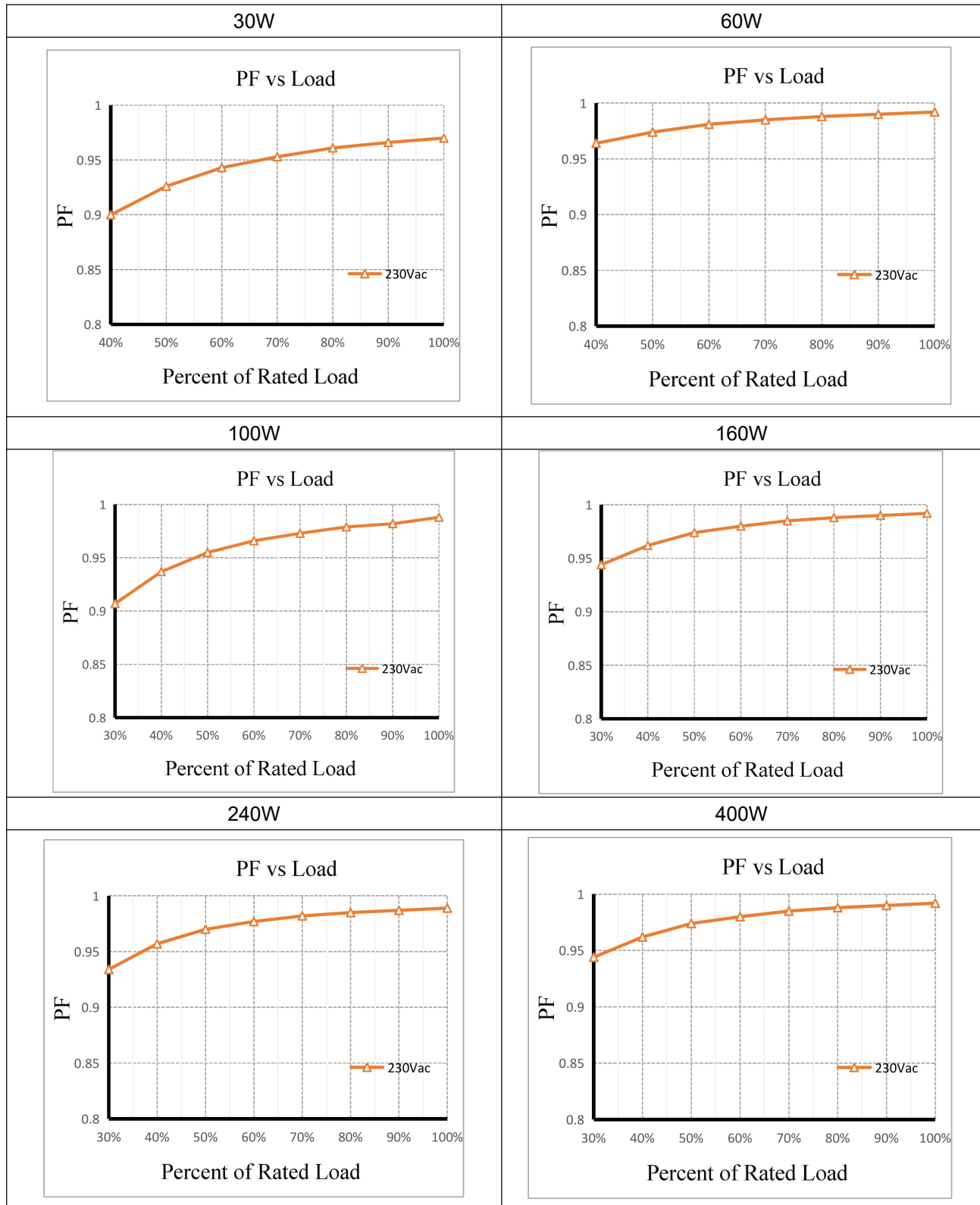
Remark:

1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C 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/50V ceramic capacitance and 47uF/50V Aluminum capacitance connected in parallel. Measured using oscilloscope with bandwidth limited to 20MHz.

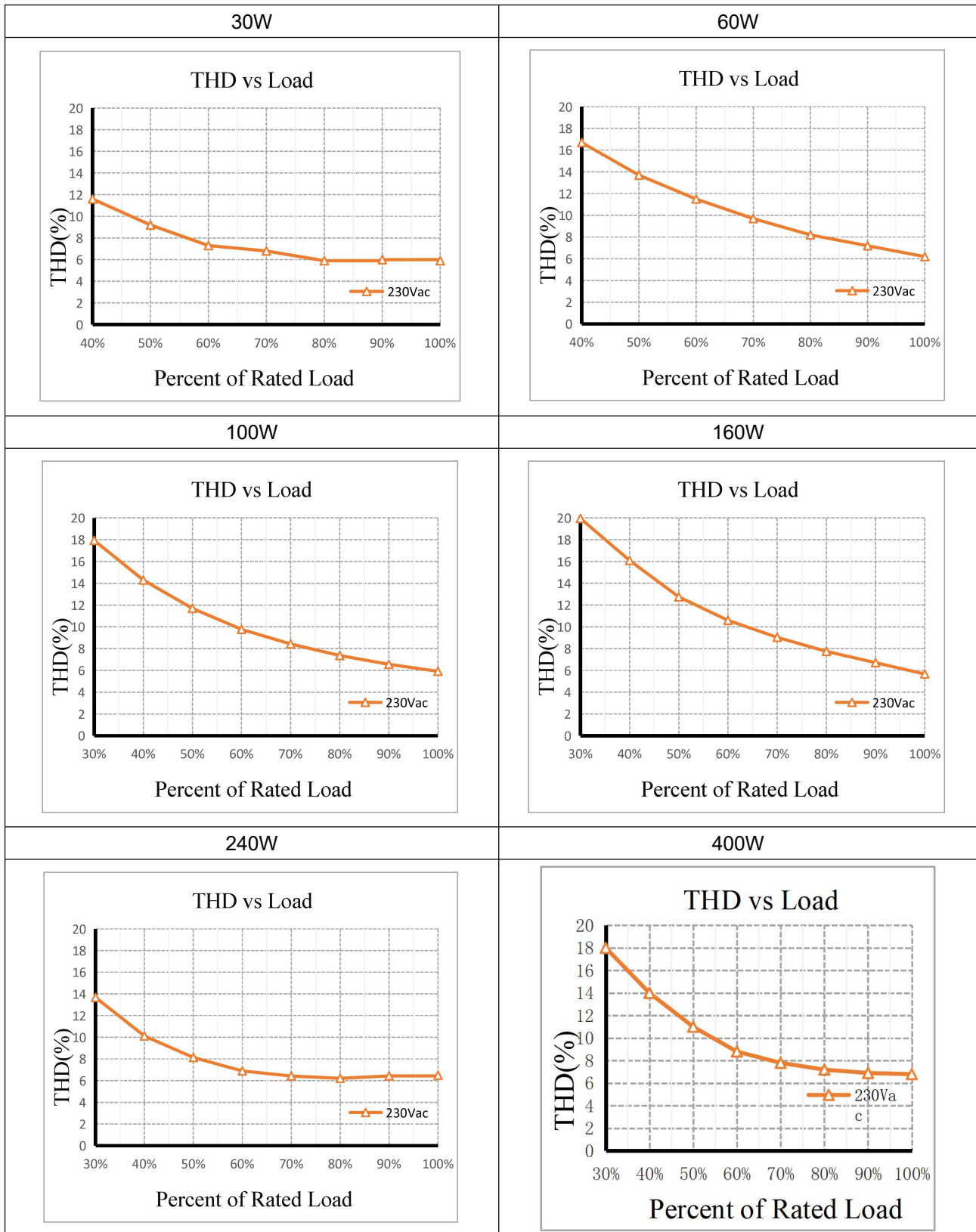
Model	Cable selection	Distance
XSV30W24-NX	0.75mm ²	30M
	1.00mm ²	50M
XSV60W24-NX	0.75mm ²	30M
	1.00mm ²	50M
XSV100W24-NX	1.00mm ²	50M
XSV160W24-NX	1.50mm ²	30M
XSV240W24-NX	2.50mm ²	30M
XSV400W24-NX	4.00mm ²	30M

2. Graph

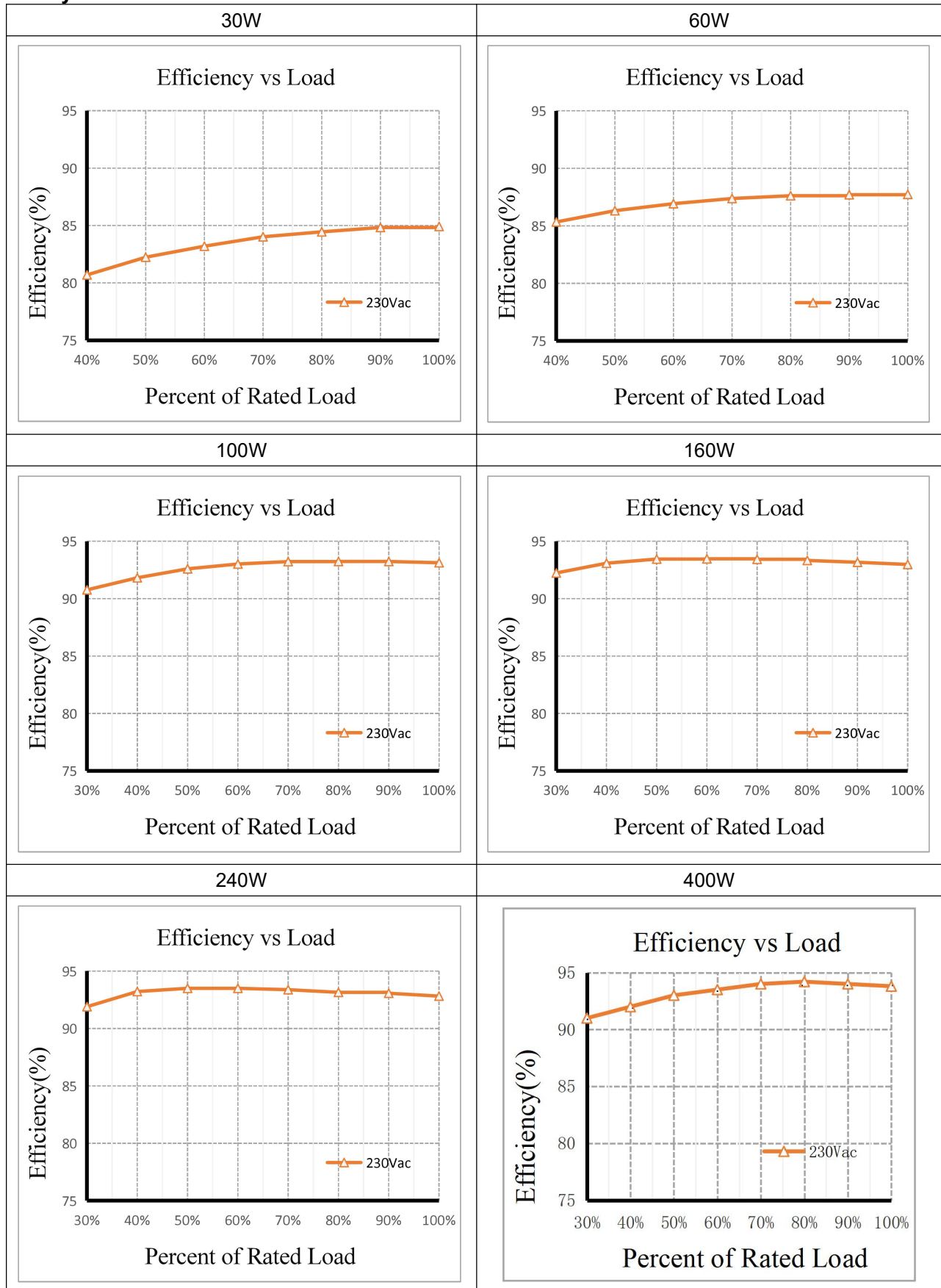
PF VS LOAD Curve



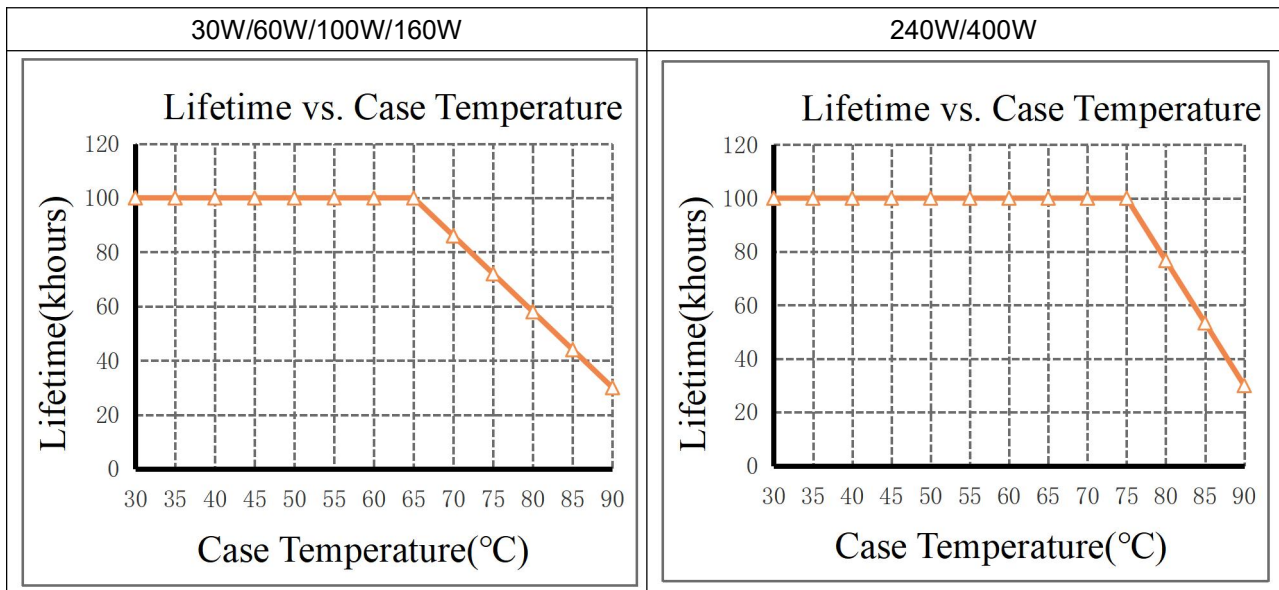
THD VS LOAD Curve



Efficiency VS LOAD Curve



Lifetime vs. Case Temperature



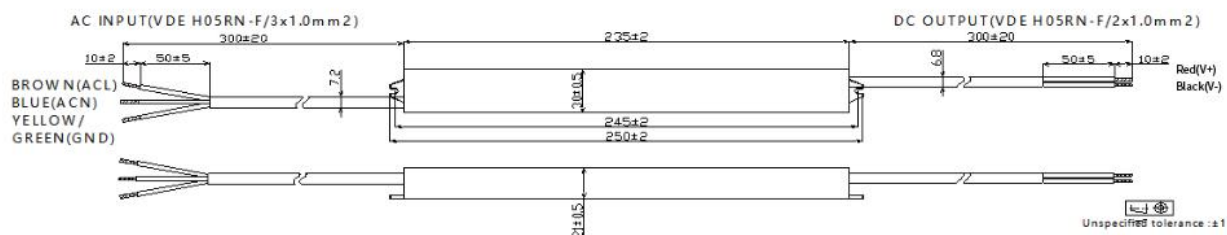
(End of Life: Maximum Failure Rate=10%)

3.Label

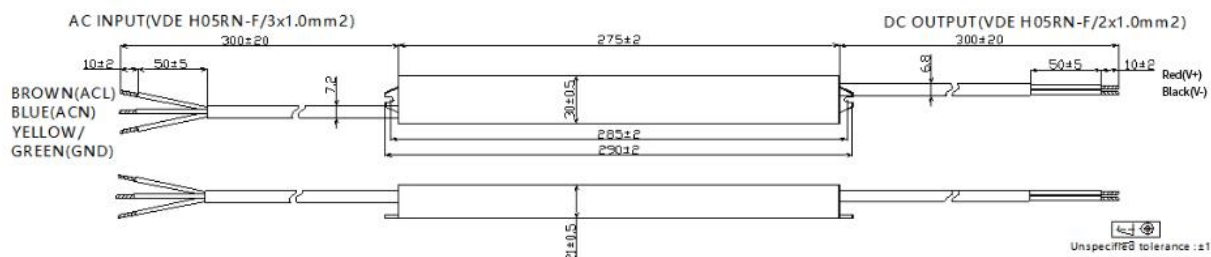
☐ L (Brown) ☐ N (Blue) ☒ (Yellow-green)	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	XSV30W24-NX 158950 LED Driver Constant Voltage Type For LED modules only	Input: 220-240V~, 50/60Hz, 0.2A, λ :0.95 Output: 24V- 0-1.25A Max.30W •tc Ta: -25 ~ +50°C Tc:75°C 	(Blue) I (Brown) + O OUTPUT
☐ L (Brown) ☐ N (Blue) ☒ (Yellow-green)	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	XSV60W24-NX 158960 LED Driver Constant Voltage Type For LED modules only	Input: 220-240V~, 50/60Hz, 0.4A, λ :0.95 Output: 24V- 0-2.5A Max.60W •tc Ta: -25 ~ +50°C Tc:75°C 	(Blue) I (Brown) + O OUTPUT
☐ L (Brown) ☐ N (Blue) ☒ (Yellow-green)	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	XSV100W24-NX 158970 LED Driver Constant Voltage Type For LED modules only	Input: 220-240V~, 50/60Hz, 0.6A, λ :0.95 Output: 24V- 0-4.17A Max.100W •tc Ta: -25 ~ +50°C Tc:75°C 	(Blue) I (Brown) + O OUTPUT
☐ L (Brown) ☐ N (Blue) ☒ (Yellow-green)	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	XSV160W24-NX 158980 LED Driver Constant Voltage Type For LED modules only	Input: 220-240V~, 50/60Hz, 0.9A, λ :0.95 Output: 24V- 0-6.67A Max.160W •tc Ta: -25 ~ +50°C Tc:85°C 	(Blue) I (Brown) + O OUTPUT
☐ L (Brown) ☐ N (Blue) ☒ (Yellow-green)	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	XSV240W24-NX 158990 LED Driver Constant Voltage Type For LED modules only	Input: 220-240V~, 50/60Hz, 1.5A, λ :0.95 Output: 24V- 0-10A Max.240W •tc Ta: -25 ~ +50°C Tc:90°C 	(Blue) I (Brown) + O OUTPUT
☐ L (Brown) ☐ N (Blue) ☒ (Yellow-green)	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	XSV400W24-NX 159000 LED Driver Constant Voltage Type For LED modules only	Input: 220-240V~, 50/60Hz, 2.3A, λ :0.95 Output: 24V- 0-16.67A Max.400W •tc Ta: -25 ~ +50°C Tc:90°C 	(Blue) I (Brown) + O OUTPUT (Blue) I (Brown) + O OUTPUT

4.Dimension (Unit: mm)

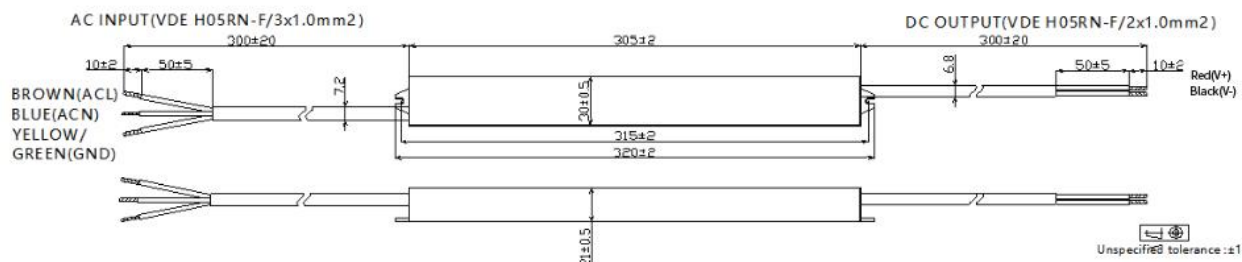
XSV30W24-NX



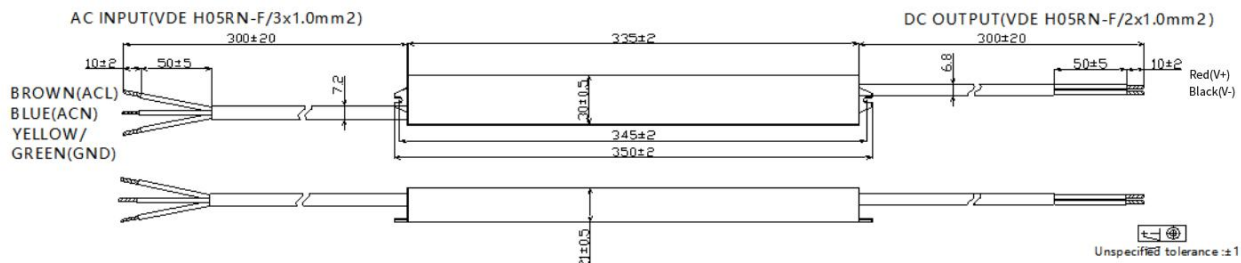
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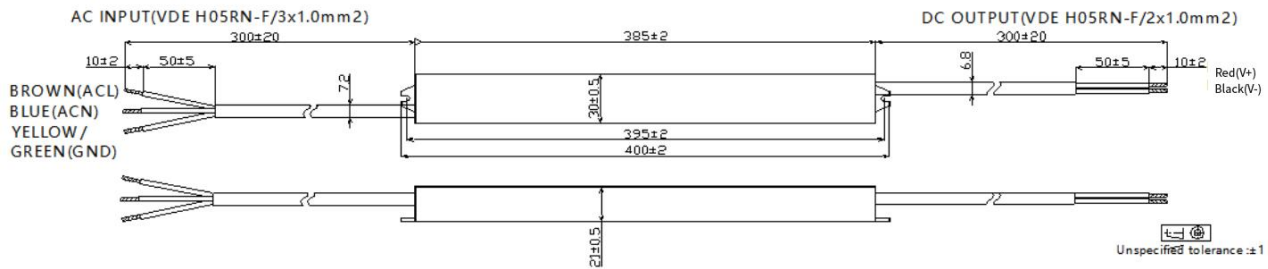
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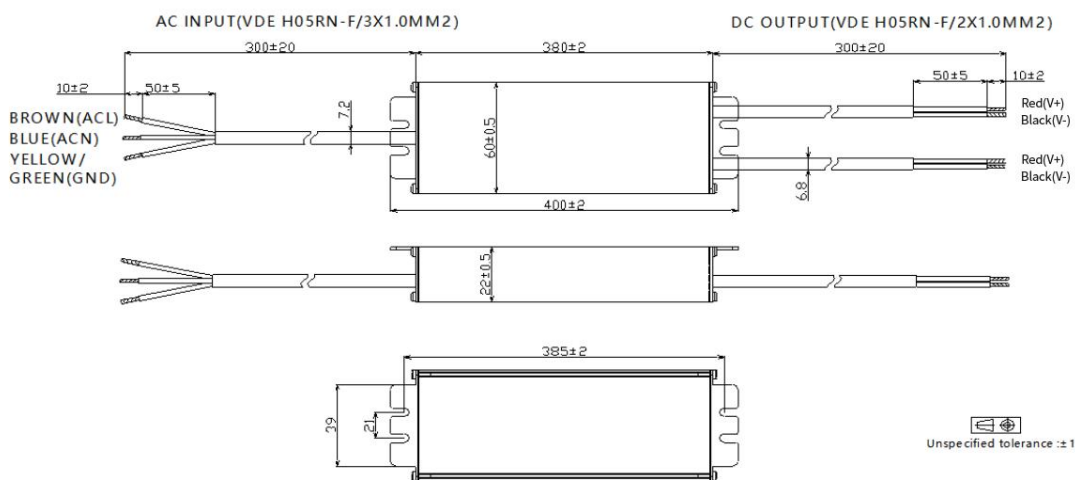
XSV160W24-NX



XSV240W24-NX

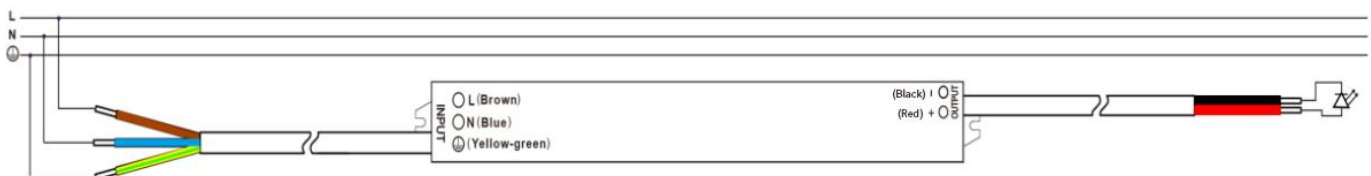


XSV400W24-NX



Remark: Two output cables are in parallel inside the drive, and the current of each cable must not exceed 10A.

5. Wiring Diagram



6. Packing information

Model	Carton L*W*H(cm)	Pcs/ Carton	Net weight/ Pcs(g)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
XSV30W24-NX	34*29*20	30	340	10.20	11.80
XSV60W24-NX	34*29*20	30	390	11.70	13.30
XSV100W24-NX	39*29*20	30	420	12.60	14.30
XSV160W24-NX	39*29*20	30	470	14.10	15.80
XSV240W24-NX	44*29*14	20	530	10.60	11.90
XSV400W24-NX	44*29*14	12	1050	12.60	13.6 0

7. Ordering data

Model No	Item code
XSV30W24-NX	158950
XSV60W24-NX	158960
XSV100W24-NX	158970
XSV160W24-NX	158980
XSV240W24-NX	158990
XSV400W24-NX	159000

8. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release
2026.16.06	V0.02	Add cable section and distance information