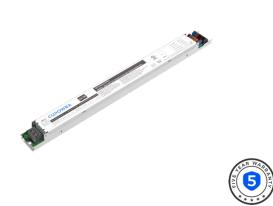
XNA LNR CST 54/120-277/CC150-1400/2CH/DMX NFC

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Product features

- DMX dimming isolated adjustable power LED driver
- 2Channel Intelligent DC to DC LED driver
- Flicker-free LED driver
- 12 V 0.1 A Auxiliary source
- Current adjustment via NFC
- NTC use for lamp temperature acquisition or output current set

- Output current 150...1400 mA
- Max. output power 54 W
- Constant lumen output (CLO)
- For luminaires with protection class I,II
- 5 years warranty



Product specifications

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Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension LxWxH (mm)
150 mA		1054 Vdc	83%		0.9 @>10 W load	- 360 x 30 x 21
350 mA		1054 Vdc	86%			
750 mA	120 Мас	1054 Vdc	89.5%			
1000 mA	- 120 Vac	1054 Vdc	89.5%			
1200 mA		1045 Vdc	88%			
1400 mA		1038.5 Vdc	88%			
150 mA		1054 Vdc	79.5%	± 5%		300 X 30 X 21
350 mA		1054 Vdc	83%		0.9 @>40 W load	
750 mA	- 277 Vac	1054 Vdc	89.5%			
1000 mA		1054 Vdc	89.5%			
1200 mA		1045 Vdc	89.5%			
1400 mA		1038.5 Vdc	88.5%			

Electrical specifications



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Mains voltage supply

Rated input voltage range	120277 Vac; performance range		
Max. input voltage range	108305 Vac; operational safety range		
Rated frequency range	50/60 Hz		
Performance / Operational safety	4763 Hz		
Max. input current	0.58 A @ 120 Vac		

Protection against voltage peaks

Withstand voltage	l/p-O/p: 1.8 kVac, < 5 mA 60 s; l/p-FG: 1.8 kVac, < 5 mA 60 s l/p-DIM: 1.8 kVac, < 5 mA 60 s; DIM-FG: 0.6 kVac, < 5 mA 60 s O/p-FG: 0.6 kVac, < 5 mA 60 s		
Mains surge immunity	L-N 1 kV, L/N-FG: 2kV per IEC 61000-4-5		
Ringing wave	L-N 2.5 kV, L-FG 2.5 kV, N-FG 2.5 kV		

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 10% @ 120 Vac; ≤ 15% @ 277 Vac
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Output data

Output current tolerance	± 5% at rated input voltage range		
No load output voltage	60 Vdc		
Ripple output current	5% (ripple = peak/average total 100/120 Hz)		
Output PstLM	\leq 1 at full load @ rated input voltage		
Output SVM	≤ 0.4 at full load @ rated input voltage		

Protection functions output side

Over voltage protection	The output voltage is less than or equal to 60 V Over voltage protection: Hiccup mode. protection device will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed.			
Overpower protection	The output power is less than or equal to 59.4 W			
Short circuit protection	Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed.			

Dimming operation and interface

Dimming current range	1%100%
Standby power consumption	< 0.5 W

Connection terminals

Connection terminal type	45° push in terminal		
Wire cross section	Input and output wire: 18-20 AWG		
Wire stripping length	910 mm		

Degree of protection

Protection rating	IP20		
Operating data			
Output current range	NFC control adjusts the current: 1501400 mA		
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Default current	150 mA		
Output voltage range	1054 Vdc		
Noise level	< 20 dB, at full load @ 100 cm distance		

Supplementary instructions

• The luminaire manufacturer is responsible for measuring and verifying the EMI compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference.

Environmental specifications

Operating temperature	-20+50°C
Storage temperature	-25+85°C
Working humidity	5%90%
Store humidity	5%95%
Lifetime	at Tc 90°C: 50,000 hrs; at Tc 80°C: 100,000 hrs @ 120 Vac (0.2% / 1,000 h failure rate)
Maximum Tc temperature	90°C

Safety & EMC compliance

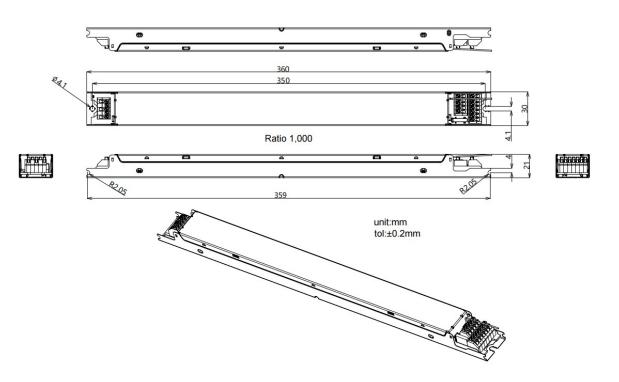
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			-	
			-	
			-	

Dimensions						
Housing dimensions			Packaging details			
Length (L)	360 mm	-	Packing units	20 pcs		
Width (W)	30 mm		Carton size	381 x 128 x128 mm		
Height (H)	21 mm	-	Weight	6.4 kg		
Weight	0.269 kg					

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Wiring diagram



- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

MCS ±

- NTC + / interface voltage 3.3 V
- Could connect to external NTC
 NTC thermal management protects LED lamp , when the temperature of LED lamp over temperature protection
- point , the current will be reduced by 50% every 5 minutes . Default setting is 85° C .
 - NTC compatibility list :

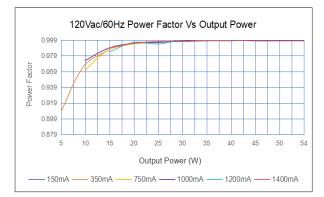
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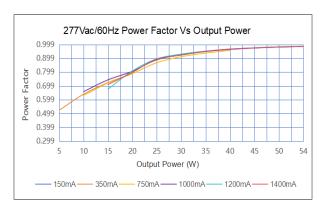
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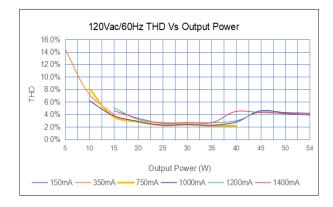
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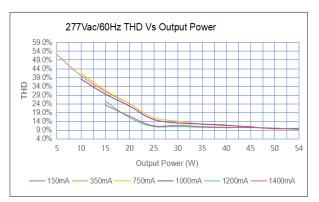
NTC Manufacturer	NTC Mode INO .	
MURATA	NCP21WB473J03RA	
VISHAY	NTCS0805e4473JXT	
VISHAY	NTCLE100E3473	

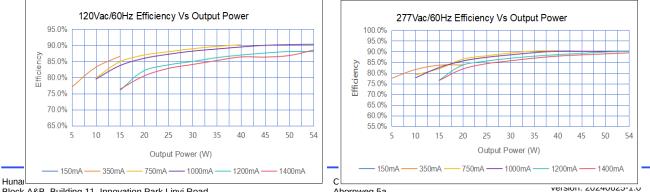
Technical information

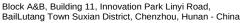








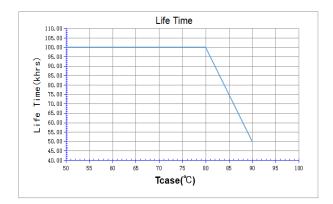


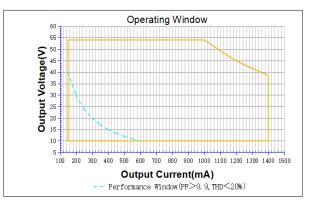


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It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 54 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
54	150 mA	8
54	350 mA	19
54	750 mA	40
54	1000 mA	54
45	1200 mA	54
38.5	1400 mA	54

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