

Art.165797

#### **Product features**

- Dimming isolated adjustable power LED driver
- 2Channel Intelligent DC to DC LED driver
- Supports DALI-2 D4i Parts 25x + AUX
- Flicker-free LED driver
- 24 V 0.1 A Auxiliary source
- Supports i-Data function (DALI part 251, 252, 253)
- 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**

#### 165797 XNA LNR DST 54/120-347/CC150-1400/2CH/D4i NFC

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension LxWxH (in)
150 mA	- 120 Vac	1054 Vdc	83%	± 5%	0.9 @>10 W load	14 x 1.18 x 0.83
350 mA		1054 Vdc	86%			
750 mA		1054 Vdc	89.5%			
1000 mA		1054 Vdc	89.5%			
1200 mA		1045 Vdc	88%			
1400 mA		1038.5 Vdc	88%			
150 mA	- 347 Vac	1054 Vdc	79.5%		0.9 @>40 W load	
350 mA		1054 Vdc	86%			
750 mA		1054 Vdc	89%			
1000 mA		1054 Vdc	89.5%			
1200 mA		1045 Vdc	88.5%			
1400 mA		1038.5 Vdc	88%			

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Mains voltage supply	
Rated input voltage range	120347 Vac; performance range
Max. input voltage range	108380 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	I/p-O/p: 1.8 kVac, < 5 mA 60 s; I/p-FG: 1.8 kVac, < 5 mA 60 s I/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; ≤ 20% @ 347 Vac
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	≤ 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 shor 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	

Errors excepted. We reserve the right to make alterations in the interest of improving our products.



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#### Operating data

Output current range	NFC control adjusts the current: 1501400 mA
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

UL	ccc	SAA

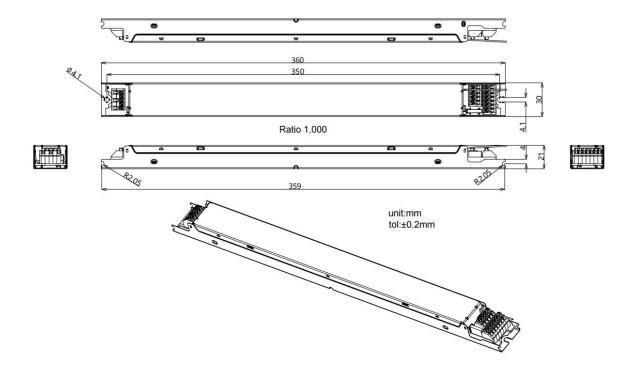
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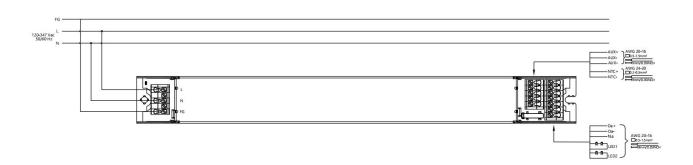


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Dimensions	<b>S</b>		
Housing dimensions		Packaging deta	ils
Length (L)	360 mm (14in)	Packing units	20 pcs
Width (W)	30 mm (1.18in)	Carton size	381 x 128 x128 mm( 15x5x5 in)
Height (H)	21 mm (0.83in)	Weight	6.4 kg
Weight	0.269 kg		



### 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.

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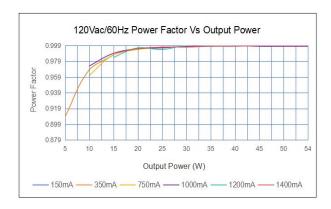
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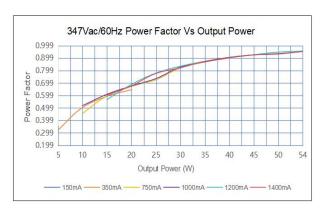
#### MCS ±

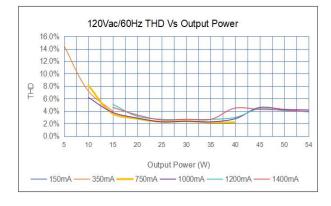
- NTC + / interface voltage 3.3 V
- Could connect to external NTC
  - NTC thermal management protects LED lamp , when the temperature of LED lamp over temperature protection point , the current will be reduced by 50% every 5 minutes . Default setting is 85°C .
- NTC compatibility list :

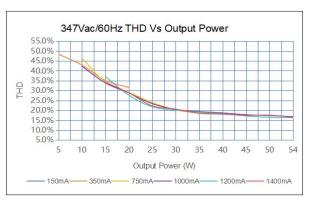
NTC Manufacturer	NTC Mode INO .	
MURATA	NCP21WB473J03RA	
VISHAY	NTCS0805e4473JXT	
VISHAY	NTCLE100E3473	

### **Technical information**







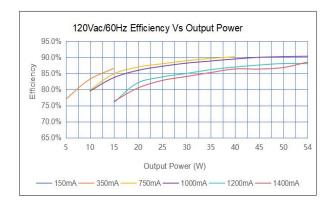


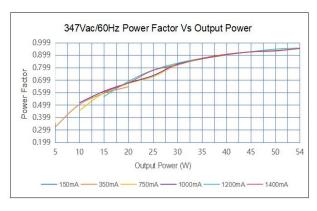
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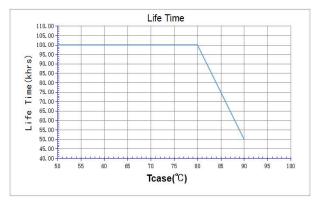
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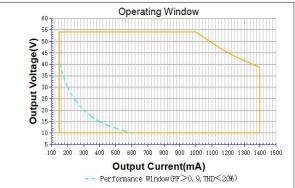


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It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 54 W + 5%.

#### **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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