

Product features

- Independent isolated adjustable power LED driver
- Supports 0...10 V dimming
- Flicker free LED driver
- Output current 200...500 mA by DIP switch adjust
- Max. output power 21 W
- For luminaires with protection class I
- 5 years warranty

Class 2   



Product specifications

164462 ID UCSCI 21/277/200-500 0-10 V DIP

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
200 mA	120 Vac	15...42 Vdc	85%	± 15 mA	0.9	205.0 x 50.0 x 32.0
250 mA		15...42 Vdc	86%			
300 mA		15...42 Vdc	86.5%	± 5%		
350 mA		15...42 Vdc	87%			
400 mA		15...42 Vdc	87.5%			
450 mA		15...42 Vdc	87.5%			
500 mA		15...42 Vdc	87.5%			
200 mA	277 Vac	15...42 Vdc	83%	± 15 mA	0.8	
250 mA		15...42 Vdc	84%		0.85	
300 mA		15...42 Vdc	85%	± 5%		
350 mA		15...42 Vdc	86%			
400 mA		15...42 Vdc	86%			
450 mA		15...42 Vdc	86%			
500 mA		15...42 Vdc	87%			

Electrical specifications

Mains voltage supply

Rated input voltage range	120...277 Vac; performance range
Max. input voltage range	108...305 Vac; operational safety range
Rated frequency range	50/60 Hz
Performance / Operational safety	47...63 Hz
Max. input current	0.27 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; O/P-FG: 0.6 kVac, < 5 mA 60 s
Mains surge immunity	L-N 1 kV, L-FG 2 kV, N-FG 2 kV per IEC 61000-4-5

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 20%
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Output data

Output current tolerance	200...250 mA ± 15 mA at rated input voltage range
Output current tolerance	300...500 mA ± 5% at rated input voltage range
No load output voltage	≤ 55 Vdc
Ripple output current	5% (ripple = peak/average total 100 Hz)
Turn-on Delay time	0.75s at full load @ rated input voltage
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 55 V
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.

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.75...2.5 mm², output wire: 0.2...1.5 mm² Dimmer wire: 0.5...1.5 mm²
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
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Operating data

Output current range	DIP control adjusts the current: 200...500 mA
Default current	200 mA
Output voltage range	15...42 Vdc
Noise level	< 24 dB, at full load @ 100 cm distance

Supplementary instructions

- It is recommended that customers install under voltage protection and surge protection devices in the power supply circuit of lamps to ensure the safety of electricity consumption.
- The power supply is used in combination with the terminal equipment as a part of the whole lamp. Because the EMC performance is affected by LED lamps and wiring, the terminal is set in case the manufacturer needs to reconfirm the EMC of the whole device.
- The outputs of drivers cannot be in paralleled.

Environmental specifications

Operating temperature	-20...+50°C
Storage temperature	-25...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 75°C: 50,000 hrs; @ 120 Vac
Maximum Tc temperature	75°C

Safety & EMC compliance

UL	CCC	SAA
UL8750		
UL1310-CLASS 2		
CAN/CSA C22.2 No.250.13		
CLASS P		

Dimensions

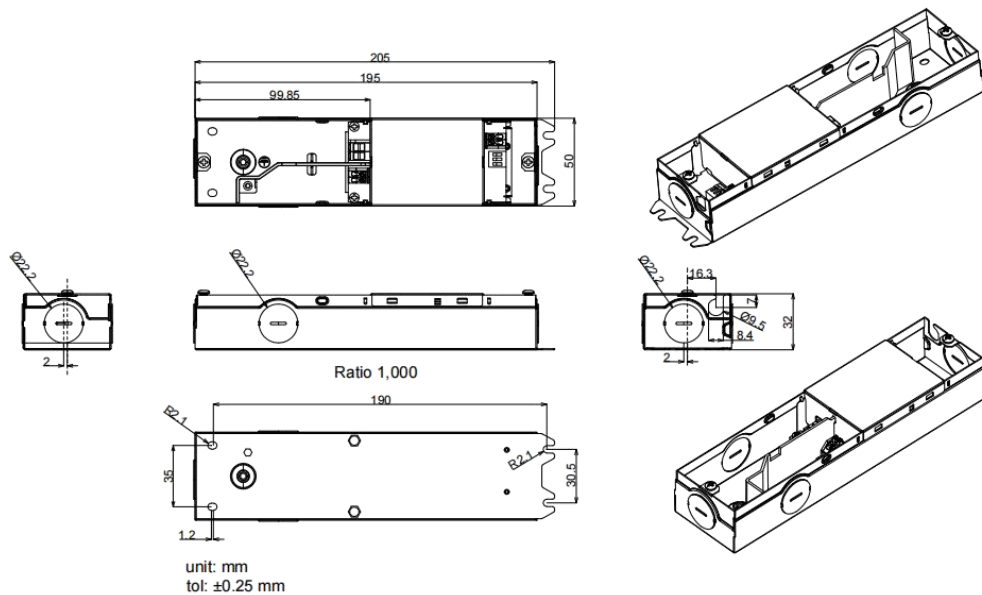
Housing dimensions

Length (L)	205 mm
Width (W)	50 mm
Height (H)	32 mm

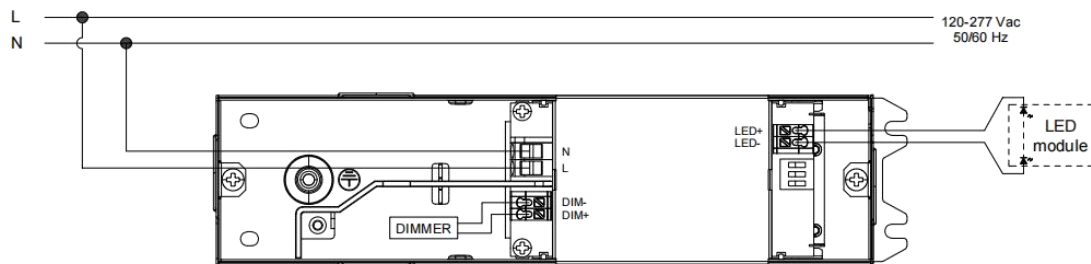
For all dimensions: values in mm; tolerances: ± 0.25 mm

Packaging details

Packing units	44 pcs
Carton size	380 x 230 x 238 mm
Carton weight	12.32 Kg
Product weight	0.264 Kg

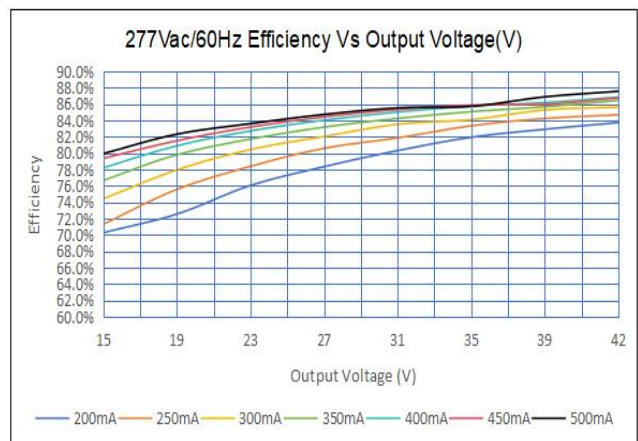
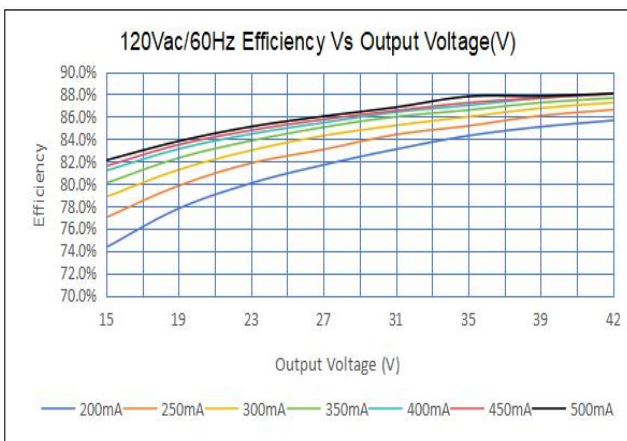
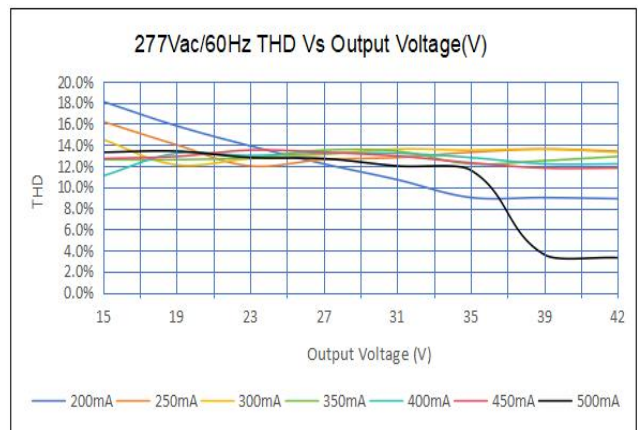
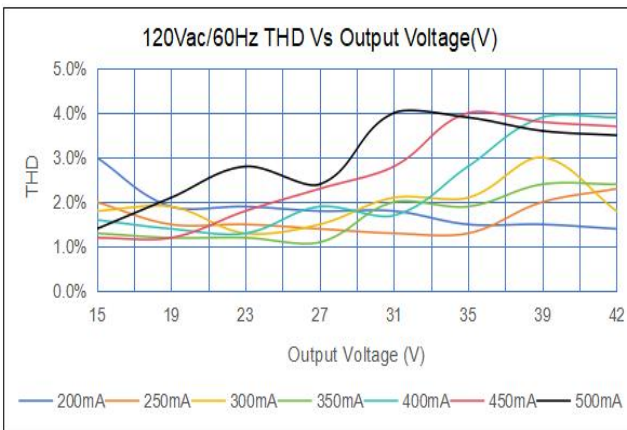
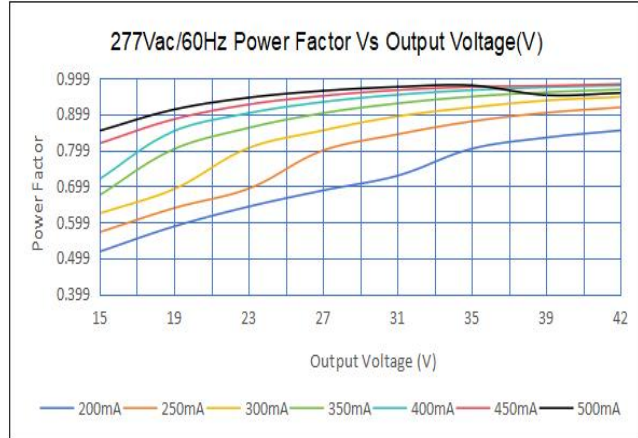
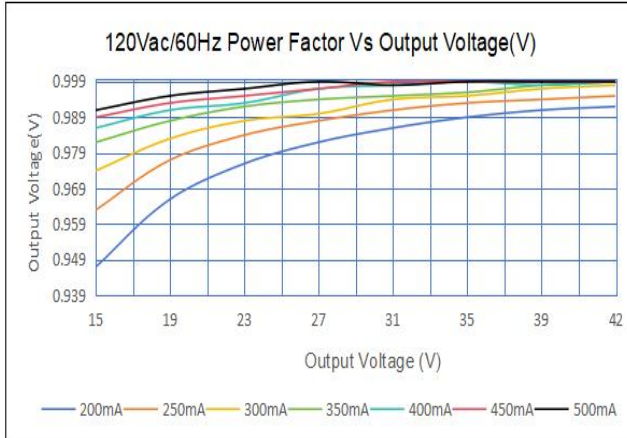


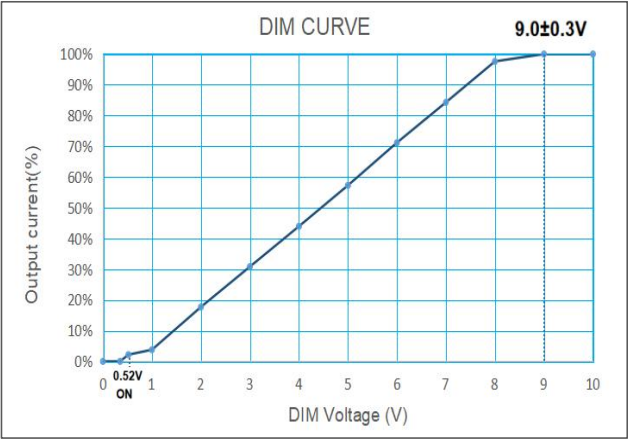
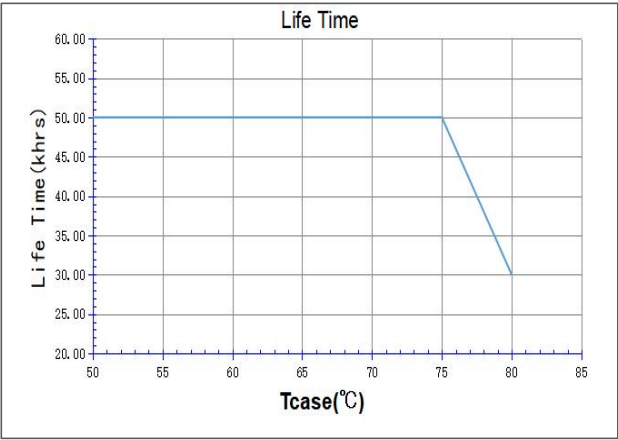
Wiring diagram



- 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).
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

Technical information





Adjustable output current with DIP-Switch

Vout	Pout	Iout	1	2	3
15...42 Vdc	8.4W	200 mA	ON	ON	ON
	10.5W	250 mA	ON	ON	OFF
	10.5W	300 mA	OFF	ON	ON
	14.7W	350 mA	ON	OFF	OFF
	16.8W	400 mA	OFF	ON	OFF
	18.9W	450 mA	OFF	OFF	ON
	21 W	500 mA	OFF	OFF	OFF