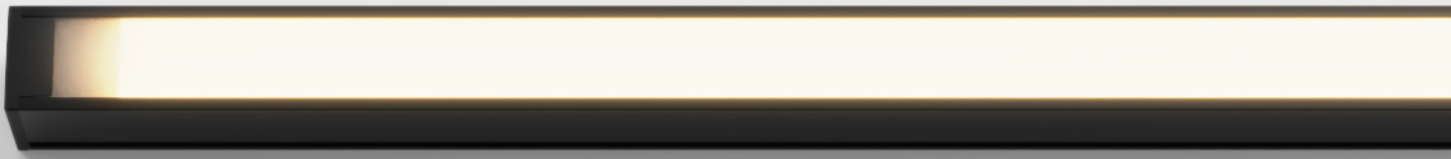# MAYA UG TW

The Maya UG TW LED luminaire seamlessly blends convenience and performance. With tunable white illumination, it's the ideal choice for projects prioritizing flexibility, powerful lumen output, and ease of use.

Importantly, the Maya UG TW features a flawlessly uniform glowing diffuser. You won't find any dots or scalloping visible along the entire length of the luminaire or on the illuminated surface.

POWER	LUMINOUS FLUX [1]		TUNABLE WHITE
5W 4.7W / metre	 **P20D WHT** · 219 – 249 lm / metre	 **P20D BLK** · 156 – 172 lm / metre	2700K to 6500K
10W 9.2W / metre	 **P20D WHT** · 438 – 503 lm / metre	 **P20D BLK** · 311 – 347 lm / metre	
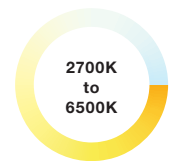
TUNABLE WHITE

Reproduce and maintain perfect white light ranging from 2700 to 6500k. Colour temperature (CCT) and intensity control made simple.

MULTIPLE LENGTHS

Highly versatile length options allow the user to achieve accurate and adaptable lengths. Maya TW can achieve any desired length in 50mm increments.

L90
LONG OPERATING LIFE

Coolon products use the world's most reputable LED manufacturers and the latest available standards to adequately report lumen maintenance. We strive to drive LEDs under their nominal current and use state-of-the-art heat dissipation methods, leading to durable electronics.

VARIOUS CCT & COLOUR BINNING CONSISTENCY

All products are offered in various colour temperatures, and manufactured using tighter bins, ensuring excellent consistency and uniformity.

5 YEARS
5 YEARS WARRANTY

Coolon luminaires are covered by a solid comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

TECHNICAL SPECIFICATIONS

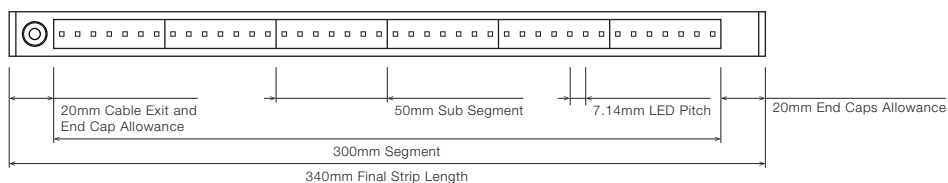|	5W VERSION	10W VERSION
Product Code	STR-MAYA UG TW	
Description	Maya UG Tunable White Linear LED Strip	
Body	Aluminium Alloy Body	
Finish	Powder Coated White (Standard), Various Colours Available	
Cover	Polycarbonate	
End Caps	Polycarbonate	
Segment Length (S)	50mm	
LED Pitch	7.14mm	
LEDs Per Segment	7 clusters of 2 WW+CW LEDs	
Operating Voltage	24VDC	
Typical Power Consumption	0.235W per 50mm Segment	0.460W per 50mm Segment
Typical Power Consumption per metre	4.7W	9.2W
Typical Current	9.8mA per 50mm Segment	19.2mA per 50mm Segment
Colour Temperature Range	2700K – 6500K [1]	
Colour Rendering Index (CRI)	90+	
Dimmable	Through EldoLed LINEARdrive range (sold separately)	
Typical Luminous Flux per Metre (lm/m)	156 – 503lm / metre [2]	
External Heatsink Required	No	
Ambient Operating Temp	-10°C to 50°C	
Reported Lumen Maintenance TM21-11 (@ Ts = 55°C, I_f = 60mA)	L70 (12K) > 72,000 hours L90 (12K) > 72,000 hours	
	Maya UG TW max. operating values (@ Ts = 55°C, I_f = 20mA)	
IP Rating	IP40	

POWER & LUMEN OUTPUT

MAYA UG TW		P20D WHT	P20D BLK
POWER 5W / Metre	2700K	219 lm	156 lm
	6500K	249 lm	172 lm

		P20D WHT	P20D BLK
POWER 10W / Metre	2700K	438 lm	311 lm
	6500K	503 lm	347 lm

[1] CCT may vary on the extremes depending on LED binning

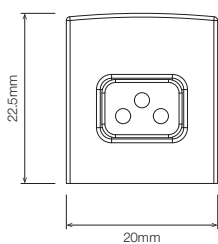[2] Maximum lumen output measured at cool white side (~6500K)

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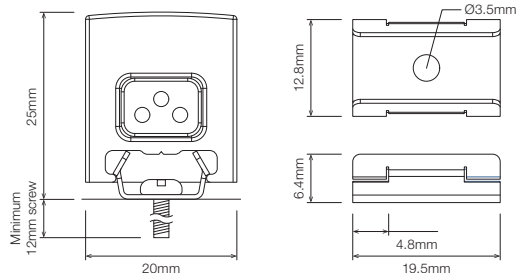
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▪ DIMENSIONS

For final strip lengths please refer to the "Product Length" table.

20mm Cable Exit and End Cap Allowance
50mm Sub Segment
7.14mm LED Pitch
20mm End Caps Allowance
300mm Segment
340mm Final Strip Length

STANDARD PROFILE

22.5mm
20mm

WITH STAINLESS STEEL C-CLIP [1]

25mm
Minimum 12mm screw
20mm

Ø3.5mm
12.8mm
6.4mm
4.8mm
19.5mm

ROTATING MOUNTING BRACKET, TYPE A/B ROTATING CLIP [1]
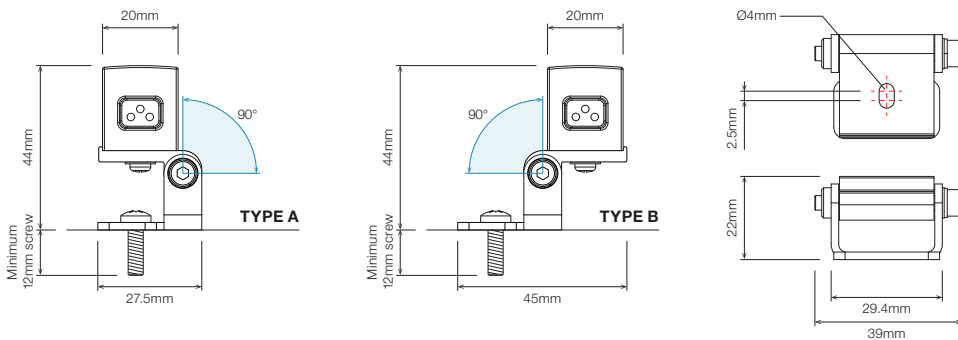
20mm
44mm
Minimum 12mm screw
90°
TYPE A
27.5mm

20mm
44mm
Minimum 12mm screw
90°
TYPE B
45mm

Ø4mm
2.5mm
22mm
29.4mm
39mm

[1] Recommended spacing between Mounting Brackets is maximum 500mm and Mounting Clips is maximum 300mm.

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▪ PRODUCT LENGTH

FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
S0	A1	50mm	add 40mm	90mm
S0	A2	100mm	add 40mm	140mm
S0	A3	150mm	add 40mm	190mm
S0	A4	200mm	add 40mm	240mm
S0	A5	250mm	add 40mm	290mm
S1	A0	300mm	add 40mm	340mm
S1	A1	350mm	add 40mm	390mm
S1	A2	400mm	add 40mm	440mm
S1	A3	450mm	add 40mm	490mm
S1	A4	500mm	add 40mm	540mm
S1	A5	550mm	add 40mm	590mm
S2	A0	600mm	add 40mm	640mm
S2	A1	650mm	add 40mm	690mm
S2	A2	700mm	add 40mm	740mm
S2	A3	750mm	add 40mm	790mm
S2	A4	800mm	add 40mm	840mm
S2	A5	850mm	add 40mm	890mm
S3	A0	900mm	add 40mm	940mm
S3	A1	950mm	add 40mm	990mm
S3	A2	1,000mm	add 40mm	1,040mm
S3	A3	1,050mm	add 40mm	1,090mm
S3	A4	1,100mm	add 40mm	1,140mm
S3	A5	1,150mm	add 40mm	1,190mm
S4	A0	1,200mm	add 40mm	1,240mm
S4	A1	1,250mm	add 40mm	1,290mm
S4	A2	1,300mm	add 40mm	1,340mm
S4	A3	1,350mm	add 40mm	1,390mm
S4	A4	1,400mm	add 40mm	1,440mm
S4	A5	1,450mm	add 40mm	1,490mm
S5	A0	1,500mm	add 40mm	1,540mm
S5	A1	1,550mm	add 40mm	1,590mm
S5	A2	1,600mm	add 40mm	1,640mm
S5	A3	1,650mm	add 40mm	1,690mm
S5	A4	1,700mm	add 40mm	1,740mm
S5	A5	1,750mm	add 40mm	1,790mm
S6	A0	1,800mm	add 40mm	1,840mm
S6	A1	1,850mm	add 40mm	1,890mm
S6	A2	1,900mm	add 40mm	1,940mm
S6	A3	1,950mm	add 40mm	1,990mm
S6	A4	2,000mm	add 40mm	2,040mm
S6	A5	2,050mm	add 40mm	2,090mm
S7	A0	2,100mm	add 40mm	2,140mm
S7	A1	2,150mm	add 40mm	2,190mm
S7	A2	2,200mm	add 40mm	2,240mm
S7	A3	2,250mm	add 40mm	2,290mm
S7	A4	2,300mm	add 40mm	2,340mm
S7	A5	2,350mm	add 40mm	2,390mm

⚠ **WARNING**

Do not bend LED strip when removing from mounting clips.

Gently twist LED Strip to remove from mounting clips.

✕

⚠ **WARNING**

PLEASE HANDLE LONG LED STRIPS WITH CARE.

LED Strips must not be bent.

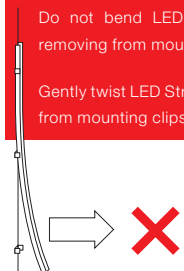When handling LED Strips, please ensure that they are kept straight.

✕ ✓

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- ## PRODUCT LENGTH
  (CONTINUED)

FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
S8	A0	2,400mm	add 40mm	2,440mm
S8	A1	2,450mm	add 40mm	2,490mm
S8	A2	2,500mm	add 40mm	2,540mm
S8	A3	2,550mm	add 40mm	2,590mm
S8	A4	2,600mm	add 40mm	2,640mm
S8	A5	2,650mm	add 40mm	2,690mm
S9	A0	2,700mm	add 40mm	2,740mm
S9	A1	2,750mm	add 40mm	2,790mm
S9	A2	2,800mm	add 40mm	2,840mm
S9	A3	2,850mm	add 40mm	2,890mm
S9	A4	2,900mm	add 40mm	2,940mm
S9	A5	2,950mm	add 40mm	2,990mm

▢ Confirm interstate courier compliance

▪ Custom length subject to availability

⚠ **WARNING**

Do not bend LED strip when removing from mounting clips.

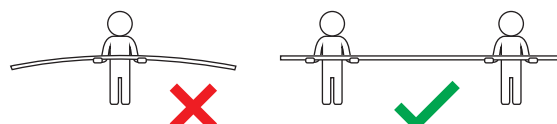Gently twist LED Strip to remove from mounting clips.

❌

⚠ **WARNING**

PLEASE HANDLE LONG LED STRIPS WITH CARE.

LED Strips must not be bent.

When handling LED Strips, please ensure that they are kept straight.

❌   ✅

▪ PROFILE / DIFFUSER

P20D · P20 Profile Diffused

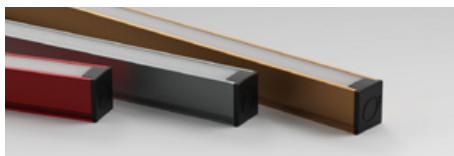## ▪ PROFILE COLOUR

WHT · White (Standard)

BLK · Black

CST · Custom Colour [1]

[1]   Custom colours available on request. End caps only available in white, black and grey.

▪ WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	IN	OUT
WR3OS Wire 3 Core One Side		● + 24V ○ – CW ● – WW	
WR3BS Wire 3 Core Both Sides		● + 24V ○ – CW ● – WW	● + 24V ○ – CW ● – WW
RC3OS Round Cable 3 Core One Side		● + 24V ○ – CW ● – WW	
RC3BS Round Cable 3 Core Both Sides		● + 24V ○ – CW ● – WW	● + 24V ○ – CW ● – WW

WIRING COLOUR CODE	
Red	+ 24V
White	– CW (Cool White LEDs)
Black	– WW (Warm White LEDs)

▪ WIRING POSITION

WB - Wire from back

Ideal for fittings installed back-to-back or limited spaces.
Wiring from Back (WB) only available for RC3OS and RC3BS.
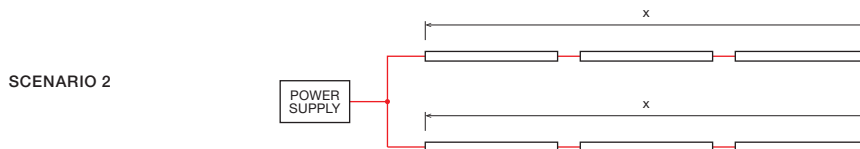
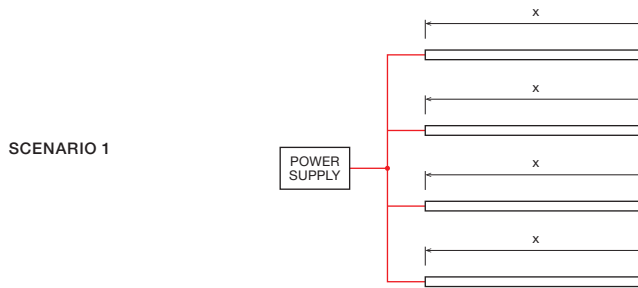**WS** - Wire from Side

Ideal for fittings installed individually or vertically.
Wiring from Side (WS) only available for WR3OS and WR3BS.

▪ IP RATING

IP40

Protected against solid
objects greater than 1mm. No
protection against liquids.

▪ INSTALLATION LIMITS

SCENARIO 1

SCENARIO 2

POWER SUPPLY

POWER SUPPLY

5W VERSION

MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE
14,000 mm	With wire 3 core (WR3OS / WR3BS)
10,000 mm	With round cable 3 core (RC3OS / RC3BS)

▪ Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.

▪ Luminaire limits are designed considering a tunable white configuration is used on the drivers,
where both colours are never operating at 100% intensity at the same time.

10W VERSION

MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE
7,000 mm	With wire 3 core (WR3OS / WR3BS)
5,000 mm	With round cable 3 core (RC3OS / RC3BS)

▪ Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.

▪ Luminaire limits are designed considering a tunable white configuration is used on the drivers,
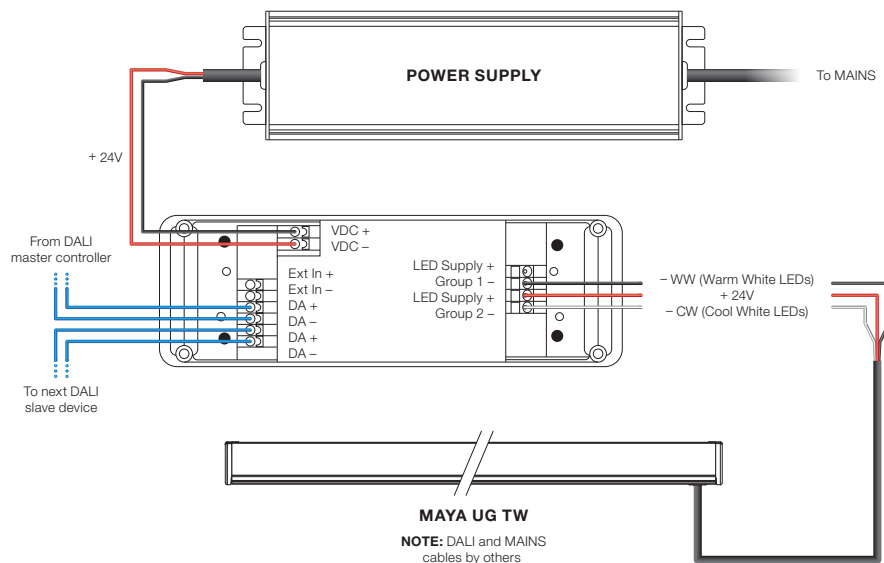where both colours are never operating at 100% intensity at the same time.

⚠ **WARNING**

Avoid connecting multiple power supplies into a single circuit, unless they are specifically designed to do so.

POWER SUPPLY POWER SUPPLY

POWER SUPPLY POWER SUPPLY

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▪ WIRING DIAGRAMS

WITH LINEARdrive

POWER SUPPLY

To MAINS

+ 24V

From DALI master controller

To next DALI slave device

VDC +
VDC −

Ext In +
Ext In −
DA +
DA −
DA +
DA −

LED Supply +
Group 1 −
LED Supply +
Group 2 −

− WW (Warm White LEDs)
+ 24V
− CW (Cool White LEDs)

MAYA UG TW

NOTE: DALI and MAINS cables by others

WITH CASAMBI CBU-PWM4

POWER SUPPLY

To MAINS

+ 24V

CASAMBI
INPUT 12-24 VDC
OUTPUT 12-24 VDC Max. 6A total
+
I
+
I
I
I
I

+ 24V
− WW (Warm White LEDs)
− CW (Cool White LEDs)
Not in use
Not in use

MAYA UG TW

NOTE: DALI and MAINS cables by others

▪ PRE LOADED DALI CONFIGURATION & CONTROL

DRIVER	CONTROL PROTOCOL
LINEARdrive DRV-LN200D-D2Z2D	DALI Device Type 6 (DT6)

• **DALI**
  • **G0**
    LED (A0) —— CONTROL **CCT Intensity** 0% ———————— 100%
  • **G1**
    LED (A1) —— CONTROL **CCT Colour Temperature** WW ———————— CW
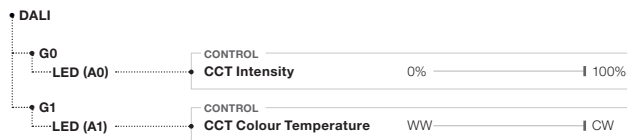
LINEARdrive DRV-LN200D-D2Z2C	DALI Device Type 8 (DT8)

• **DALI**
  LED (A0) —— DT8 DALI CONTROLS
    Intensity 0% ———————— 100%
    CCT CW ———————— WW

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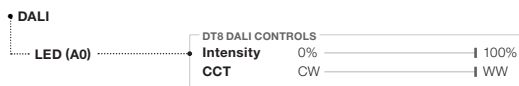
- ## ORDERING EXAMPLE

STR - MAYA UG TW - 10W - TW - S2A0 - P20D - WHT - WR3OS - WB - 250 - IP40

TYPE
WATTAGE
COLOUR TEMPERATURE
NUMBER OF FULL SEGMENTS
NUMBER OF SUB SEGMENTS
PROFILE / DIFFUSER
PROFILE COLOUR
WIRING CONFIGURATION
WIRING POSITION
WIRING LENGTH
IP RATING
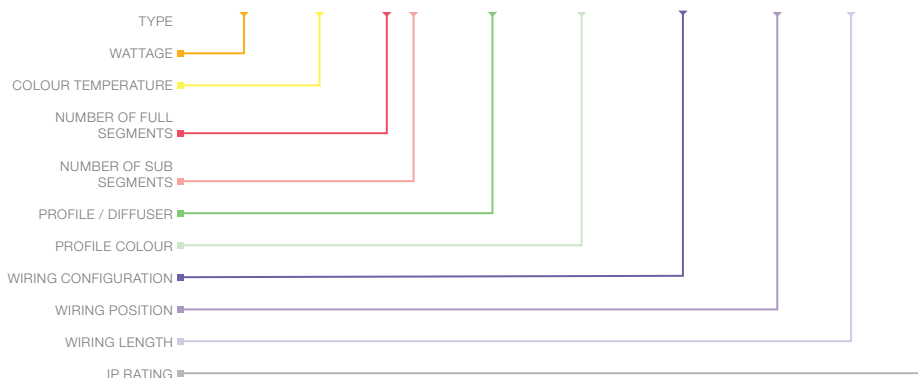
WATTAGE

5W	4.7W per Metre
10W	9.2W per Metre

COLOUR TEMPERATURE

TW	Tunable White (2700K – 6500K)
TWW	Tunable White Warm (1800K – 3000K) [1]

PRODUCT LENGTH

FULL SEGMENTS	SUB SEGMENTS
S0	A0
S1	A1
S2	A2
S3	A3
S4	A4
S5	A5
S6	
S7	
S8	
S9	

PROFILE / DIFFUSER

P20D	P20 Profile Diffused

PROFILE COLOUR

WHT	White (Standard)
BLK	Black
CST	Custom Colour [2]

WIRING CONFIGURATION

WR3OS	Wire 3 Core One Side
WR3BS	Wire 3 Core Both Sides
RC3OS	Round Cable 3 Core One Side
RC3BS	Round Cable 3 Core Both Side

WIRING POSITION

WB	Wire from Back [3]
WS	Wire from Side [4]

WIRING LENGTH

100	100mm
250	250mm
500	500mm

IP RATING

IP40	Indoor Use

[1] Custom LED variant.
[2] Custom colours available on request. End caps only available in white, black and grey.
[3] Wiring from back only available for RC3OS and RC3BS.
[4] Wiring from side only available for WR3OS and WR3BS.

▪ ACCESSORIES

	PRODUCT CODE	DESCRIPTION
MOUNTING		
	MC-CCLIP20	Stainless Steel C-Clip for P20 Profile
	MBR-RB-TA-P20-BLK	Rotating Bracket, TYPE A Rotating Clip - Black
	MBR-RB-TB-P20-BLK	Rotating Bracket, TYPE B Rotating Clip - Black

[1] Recommended spacing between Mounting Brackets is maximum 500mm and Mounting Clips is maximum 300mm.

	PRODUCT CODE	DESCRIPTION
DRIVER		
	DRV-LN200D-D2Z2C	LINEARdrive, 224W, DALI DT8 , 2 Control CH, 2 Outputs
	DRV-LN200D-D2Z2D	LINEARdrive, 224W, DALI DT6 , 2 Control CH, 2 Outputs
	CAS-CBU-PWM4	Casambi TW 4 Channel CV Bluetooth Controllable PWM Dimmer CBU-PWM4

	PRODUCT CODE	DESCRIPTION
POWER SUPPLY FOR OUTDOOR USE		
	PWR-HLG60-24V	Mean Well Power Supply HLG 60W 24V
	PWR-HLG150-24V	Mean Well Power Supply HLG 150W 24V
	PWR-HLG240-24V	Mean Well Power Supply HLG 240W 24V