



Lumistrips

DATASHEET

POWERBAR V3 UVA NICHIA NVSU119C LED MODULE ALUMINIUM 395NM 17400MW
12 LEDS 700MA 27.72W 28.6CM

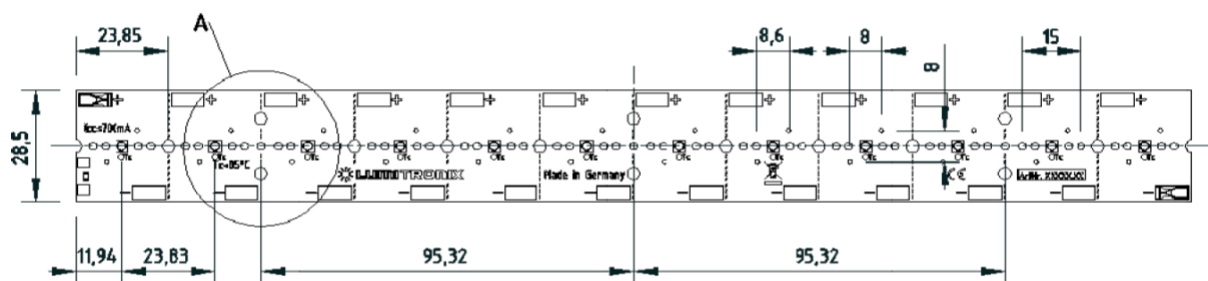
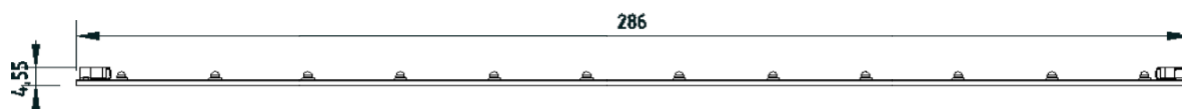
SKU: 42939



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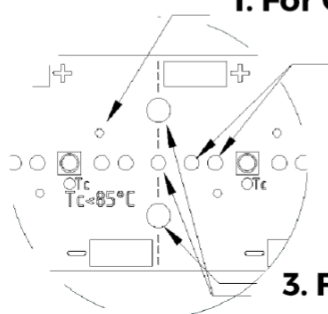
Article number (SKU)		42939	
Product name		PowerBar V3 UVA Nichia NVSU119C LED Module Aluminium 395nm 17400mW 12 LEDs 700mA 27.72W 28.6cm	
Classification		Professional	
Model identifier (equivalent models)		PowerBar V3	
Photometric data (at TJ = 85°C, ± 10%)			
Light color		UVA	
Binning		-	
Color temperature (K)		-	
Dominant wavelength (nm)		395 nm	
Luminous flux (lm)		-	
Radiant power (mW)		17400 mW	60839 mW/m
CRI (Ra)		-	
Efficiency (mW/W)		627.7 mW/W	
Beam angle FWHP		130°	
Lifetime L80B10C1 (h)		>50,000 h	
Photometric code		-	
Electrical data (at TJ = 85°C, ± 10%)			
Operating mode		Constant current	
Voltage (V)		39.6 V	
Current (mA)		700 mA	
Power (W)		27.72 W	96.92 W/m
Standby power consumption (W)		0 W	
Dimmable		Yes	
Dimensions / Mechanical data		Metric units	Imperial units
Length		286 mm	11.260 in
Width		28.5 mm	1.122 in
Height		4.55 mm	0.179 in
Number of LEDs (pcs)		12 pcs	
Weight (g)		-	
Heat dissipation		Yes, cooling necessary	
Temperatures			
Operating temperature at Tc		-40 °C to +105 °C	
Ambient temperature		-	
Storage temperature		-40 °C to +105 °C	
Approvals / Certifications			
CE / RoHS / Reach		Yes	
EN 62471 Risk group		RG1	
Energy efficiency class		-	
Mains voltage luminous efficacy (lm/W)		-	
Version			
Date		14 May 2025	

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1. For Carclo 10mm Lens

2. For Ledil Lens



3. For Ledil Fiorentina Lens

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COMPATIBLE COMPONENTS

Together with the matching components (image below), the PowerBar LED module can be transformed into a high-power compact luminaire. You can put it together according to your requirements.



Components can be ordered online:

[Luminaire Case](#)

[Lens and Optics](#)

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MANUFACTURING



This product carries a five-year commercial warranty. Refer to <https://www.lumistrips.com/lumistrips-en-warranty> for warranty terms.

We develop and manufacture LED modules and strips in Hechingen, Germany, drawing on more than 20 years of experience in LED technology.

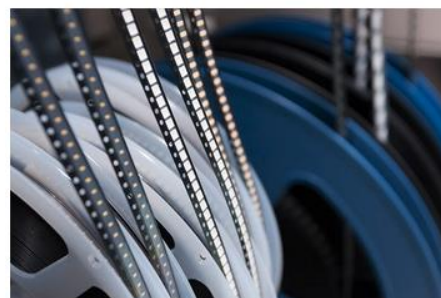


Our capabilities cover rigid modules, flexible LED strips and custom assemblies, with support from development and prototyping through to series production.

CUSTOM DEVELOPMENT AND SUPPORT

- Custom options can include PCB dimensions, LED selection, optics and control electronics, subject to technical feasibility.
- Development support covers PCB layout, thermal design and system integration.
- Prototypes can be assembled and evaluated in our in-house lighting laboratory.
- Supply your optical targets, dimensions, supply and control requirements, operating environment and expected quantity when requesting a custom design.
- Technical enquiries: contactus@lumistrips.com | www.lumistrips.eu

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Our manufacturing capabilities include surface-mount technology (SMT) assembly for rigid PCBs and reel-to-reel production for flexible LED substrates. The process is selected to suit the product design and production volume.

Production quality controls include:

- Laser marking for PCB identification and traceability
- Solder paste inspection before component placement
- Automated component placement
- Controlled reflow soldering
- Three-dimensional automated optical inspection

Manufacturing management systems: ISO 9001 for quality, ISO 14001 for environmental management and ISO 45001 for occupational health and safety. These certifications apply to the manufacturing centre; product approvals are listed separately in the technical data.

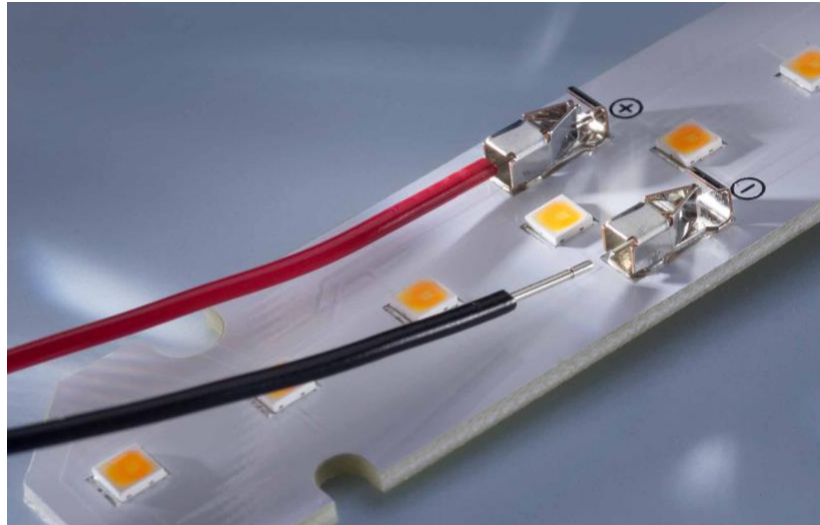
LED SELECTION AND PERFORMANCE

LED components are selected for each product's optical, electrical and thermal requirements. The specified LED type and SKU identify the configuration covered by this datasheet.

- Optical data: luminous flux, correlated colour temperature (CCT), colour rendering index (CRI) and colour consistency, where specified.
- Electrical data: supply type, operating current, voltage and power at the stated reference conditions.
- Thermal data: the case-temperature and ambient-temperature limits apply to the installed product.
- Performance values apply under the stated test conditions. Installed output and lifetime depend on the operating current, temperature and luminaire design.

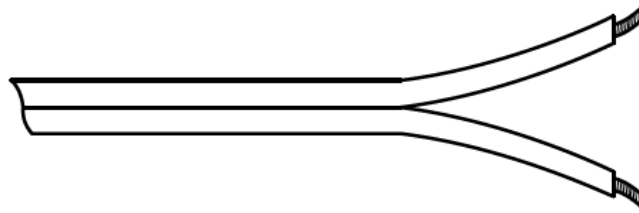
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ELECTRICAL CONNECTION



Connect the PowerBar module using the marked solderless terminals, observing the positive (+) and negative (-) polarity. Use the specified connector and mechanical interface.

For this PowerBar, the recommended conductor cross-section is 0.75 mm² per conductor (two conductors; approximately AWG 18). Use a wire type and stripped length accepted by the connector. Insert conductors fully and check retention.



The PowerBar V3 can be cut into shorter lengths, up to an individual unit with one LED. For connecting these parts, soldering wires to the connection pad might be required.

DRIVER SELECTION

This PowerBar operates from a constant-current (CC) driver. Its reference operating point is 700 mA at a module voltage of 39.6 V and a power of 27.72 W. Select a driver whose regulated output range accommodates the load over the operating conditions. Do not connect the module directly to a constant-voltage supply.

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PARALLEL CONNECTION

Where parallel operation is permitted, connect all positive (+) terminals to the positive supply and all negative (-) terminals to the negative supply.

Each branch operates at the same supply voltage; total supply current is the sum of the branch currents.

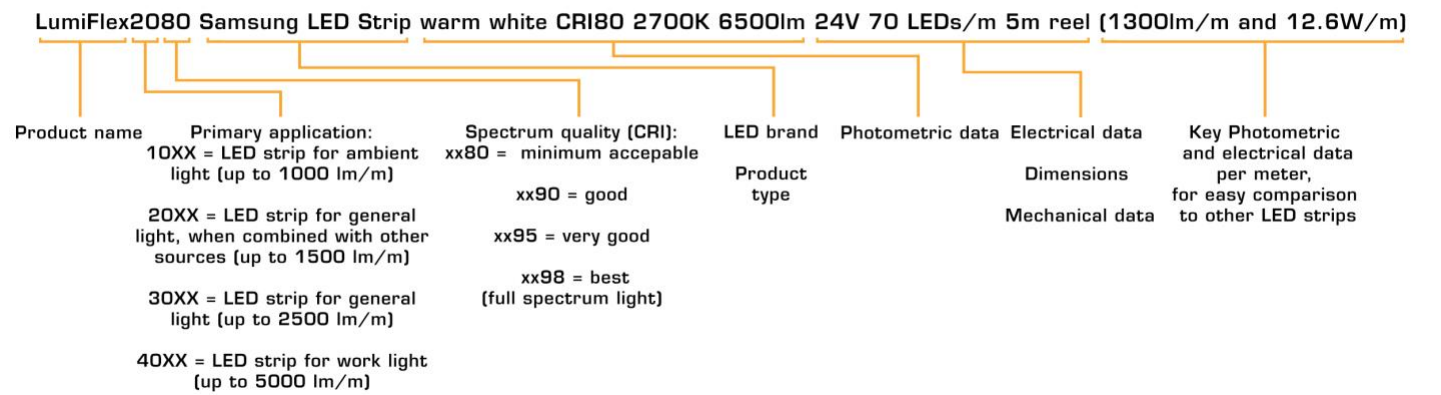
For CC modules, use parallel wiring only in a validated configuration with suitable current sharing or individual branch regulation. Do not assume that a single CC driver divides its output current equally between modules.

SERIES CONNECTION

For compatible CC modules, connect driver (+) to module 1 (+), module 1 (-) to module 2 (+), and continue in the same sequence. Connect the final module (-) to driver (-).

All modules carry the same current. Set the driver current to the specified module operating current. The driver output-voltage range must accommodate the sum of the module forward voltages over the operating conditions. Do not apply this arrangement to CV strips unless explicitly specified.

PRODUCT NAMING EXAMPLE



Illustrative LumiFlex naming convention; refer to the SKU specifications for product ratings.

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HANDLING AND INSTALLATION

Electrical isolation

Disconnect the supply before installation or wiring. Installation must be performed by an authorized electrician in accordance with applicable electrical and safety requirements.

Mechanical handling and ESD

Use electrostatic discharge (ESD) precautions. Handle the PCB by its edges; do not press on LEDs or other components. Avoid excessive bending, clamping forces and overtightened fixings. Do not damage conductive tracks.

Mounting and temperature

Support the PCB at the intended mounting points. Provide the heat dissipation required by the product and verify that case and ambient temperatures remain within the specified limits in the completed installation.

Storage and environment

Avoid contact with aggressive chemicals during storage and operation. For this LED module, the specified storage and operating humidity range is 10% to 60%. Apply the environmental limits and ingress-protection requirements specified for each product.

Power supply protection

This module has no integrated overload, overtemperature or short-circuit protection. Use an electronically regulated supply with these protective functions, including when selecting a third-party supply. Verify that the complete system remains within the module's electrical and thermal limits.

Checks before operation

Check polarity, conductor retention, driver settings and mounting before applying power. Confirm that the driver and any dimming controls are compatible with the selected product.

DOCUMENT INFORMATION

Distribution and reproduction of this document, utilization and communication of its contents are prohibited unless expressly permitted. Any infringement will result in compensation for damages. All rights reserved in the event of patent, utility model or design registration.
We reserve the right to make technical changes.

ORDERING AND PRODUCT INFORMATION

www.ledrise.eu / www.lumistrips.com