



UVC Stanley 12 LED VIOLET Strip

ILS-ZZ12-Z265-VL0xx-SC201-W2.

Product Overview

At the heart of each UV VIOLET strip are 12 compact, high quality and reliable Stanley ZEUBE265 1-chip UV LED UV LEDs, with a with primary 120 degree lens, featuring high radiometric power density and design flexibility. The VIOLET strip has been specifically designed to work with the VIOLET linear lens from LEDiL. With a ceramic substrate, the ZEUBE265 is ideal for anti-bacterial and disinfection applications. The UV VIOLET range is suited to demanding industrial applications and features a vertical chip structure on a patented metal alloy substrate, offering advances in optical output and high thermal conductivity. VIOLET strips are compact, powerful LED light sources built on aluminium substrates for optimal thermal management. Available with 200mm wires as standard.

Applications

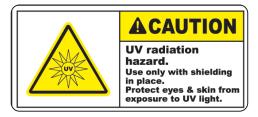
- Air sterilisation
- Bio medical equipment
- Inspection equipment
- Horticultural lighting
- Disinfection
- Water sterilisation



Technical Features

- Stanley ZEUBE265 12 VIOLET Strips contains 12 1-chip UV LED with integral 120 degree silica glass lens
- Mounting holes using M3 screws allows easy installation
- Available with 200mm connecting wires
- Suitable Heatsinks available check options in Heatsink section
- Matching Power Supply available check options in Power Supply section
- Suitable Thermal Interface Material available check options in Thermal Interface Material section
- Size (L x W x H): 275x20x3.84mm
- VIOLET Strips can be linked together to produce longer chains
- Current range 300-1500mA

^{*}This datasheet should be read in conjunction with the relevant Stanley data for the LED used.



These products generate UVC radiation which can cause skin damage and conjunctivitis to humans and animals within a short time. The skin and eyes must be fully protected against exposure. You should be aware that UVC radiation does not eliminate harmful non-degradable substances such as heavy metals or pesticides. Assume IEC62471 Risk Group 3



Important Information and Precautions

- During operation, the LED emits ultraviolet (UV) light which is harmful to skin and eyes. UV radiation can cause sunburn, conjunctivitis and cancer.
- Precautions MUST be taken to avoid looking directly at the UV light such as the use of UV light protective glasses.
- If LEDs are embedded in devices, you must add warning labels to alert users of the safety precautions required when operating devices using UV LED lights. The module's LEDs, when powered up, are very powerful. Although the light may appear off, however UV is invisible to the human eye and can still damage eyes. Thus it is advised that you do not look directly at it. Turn the module away from you and do not shine into the eyes of others The module's LEDs, when powered up, are very powerful. Although the light may appear off, however UV is invisible to the human eye and can still damage eyes. Thus it is advised that you do not look directly at it. Turn the module away from you and do not shine into the eyes of others.
- These devices emit high intensity UV/NUV light. Necessary precautions must be taken during operation. Do not look directly into the light or look through the optical system when in operation. Protective eyewear should be worn at all times during operation.
- Lens discolouration may occur with prolonged exposure to UV/NUV light. Lens material will need to be tested for UV/NUV light compatibility and durability.
- VIOLET Strips will overheat in operation if not attached to a suitable Heatsink. Overheating can cause failure or irreparable damage.
- Do not operate LEDiL Selectors with a Power Supply with unlimited current.
- Connection to constant voltage Power Supplies that are not current limited may cause the VIOLET Strips to consume current above the specified maximum and cause failure or irreparable damage.
- VIOLET Strips, when operated, can reach high temperatures thus there is risk of injury if they are touched.
- DO NOT HOT PLUG ON LED SIDE OF POWER SUPPLY.
- DO NOT TOUCH or PUSH on the LED as this can cause irreparable damage

Product Options

	Peak Wavelength*		Typical	Forward	Typical Radiometric	Radiance	Relevant
ILS Part Number	min data maxλp Wattage at 1320mA §	Voltage *	Power (mW) at I320mA*	Angle	Stanley LED Data		
ILS-ZZ12-Z265-VL050-SC201-W2.	259nm	269nm	27.72W	24.4V to 32.0V	600mW	120° (+/- 60°)	ZEUBE265- 2CA-TR
ILS-ZZ12-Z265-VL035-SC201-W2.	259nm	269nm	27.72W	23.6V to 32.0V	420mW	120° (+/- 60°)	ZEUBE265- 1BB-TR
ILS-ZZ12-Z265-VL030-SC201-W2.	259nm	269nm	27.72W	23.6V to 32.0V	360mW	120° (+/- 60°)	ZEUBE265- 2BA-TR
ILS-ZZ12-Z265-VL025-SC201-W2.	259nm	269nm	27.72W	23.6V to 32.0V	300mW	120° (+/- 60°)	ZEUBE265- 1BA-TR

^{*}Radiometric power is measured with an accuracy of $\pm 10\%$.



^{*}The forward voltage is measured with an accuracy of ±0.2V

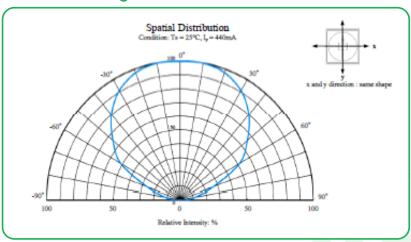
^{*}The peak/dominant wavelength is measured with an accuracy of $\pm 1\,\mathrm{nm}$

Minimum and Maximum Ratings

ILS Part Number	Operating Temperature at Tc- Point [°C]*	Storage Temperature [°C]*	Forward Current per chip [mA]*	Reverse Voltage [Vdc]*
ILS-ZZ12-Z265-VL050-SC201-W2.	-30 85 (°C)	-40 100 (°C)	100mA 500mA	Refer to LED Datasheet
ILS-ZZ12-Z265-VL035-SC201-W2.	-30 85 (°C)	-40 100 (°C)	100mA 500mA	Refer to LED Datasheet
ILS-ZZ12-Z265-VL030-SC201-W2.	-30 85 (°C)	-40 100 (°C)	100mA 500mA	Refer to LED Datasheet
ILS-ZZ12-Z265-VL025-SC201-W2.	-30 85 (°C)	-40 100 (°C)	100mA 500mA	Refer to LED Datasheet

^{*} Exceeding maximum ratings for operating and storage temperature will reduce expected life time or destroy the LED module. Exceeding maximum ratings for operating voltage will cause hazardous overload and is likely to destroy the LED module. The temperature of the LED module must be measured at the Tc-Point according to EN60598-1 in a thermally constant status with a temperature sensor or a temperature sensitive label.

Radiation of single LED



Technical Drawing with cables (mm)

Coming Soon

3D drawing files are available on request from ILS. Please call or email



Stanley ZEUBE265 VIOLET Strip Lens and Reflector Options

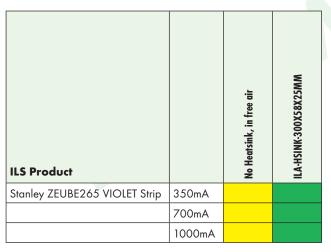
LEDiL precision-engineered Lenses and Reflectors allow for rapid deployment of all types of light fixtures, including street lights, wall-wash, high-bay, sconces, emergency beacons, parking garage/low-bay, MR and AR downlights, and dock lights. Precision-engineered for maximum efficiency and durability, LEDiL Lenses and Reflectors are released alongside the latest product releases from our LED suppliers. You select the best LED for the application; choose LEDiL and you're selecting the best optical solution as well.



Part Number	Beam	Size	Height	Family	FWHM	Material	Colour	Fastening
FN 17294_VIOLET-12X1-S	Spot	295x42mm	8.8mm	VIOLET	20	Silicone	Clear	Screw + Holder

Stanley ZEUBE265 VIOLET Strip Heatsink Options

ILS has a series of Aluminium Alloy Heatsinks to be used with our standard range of PowerStars, PowerClusters and PowerLinear Engines. Some Heatsinks are supplied as kits with fixing screws and Thermal Interface Material (TIM). ILS is continually expanding its Heatsink range and we are equally happy to manufacture custom Heatsinks upon your request.





Key

Operates under the recommended ILS junction temperature

Operates under the recommended LED maximum junction temperature

Not suitable for use

Heatsink not designed for use with this product



ATASHEET

www.i-led.co.uk

Stanley ZEUBE265 12 VIOLET Strip Power Supply Options

ILS has a comprehensive range of standard Power Supplies. Additional Power Supplies are frequently being introduced so please call us or check our website for the latest offering.

	1	I		
ILS Driver Part No.	Rating Watts	Current	Output Volts	
IZC035-008F-5065C-SA	8W	350mA	3-36V	Constitution Const
IZC035-017F-0067A-SA	17W	350mA	6-48V	
IZC035-018T-9500A-SX	18W	350mA	15-52V	100 mm/s
IZC050-018T-9500A-SX	18W	500mA	9-36V	10 1000 10 1000 10 1000 10 10 1000 10 10
IZC070-035F-0067C-SA	35W	350mA	9-48V	
OT FIT 25/220-240/700 NFC	25W	350-700mA	18-40V	STATE OF THE OF
OT FIT 40/220-240/1A0 NFC	40W	700-1050mA	18-40V	Francisco de la constanción de
OT FIT 30/220240/700 CSmA	30W	500 / 600 / 700 / 650 mA	23-42V	PRINCE OF THE PR
OT FIT 40/220240/1A0 LT2 S	40W	500-1050mA	15-50V	THE STANDARD MALLET WITH STANDARD MALLET WAS A STANDARD MALLET WAS
OTe 13/220240/350 PC	13W	350mA	18-38V	Constitution Observed in the Constitution of t
OTe 18/220240/500 PC	18W	500mA	18-36V	OFFICE OF THE STATE OF THE STAT
OTe 25/220240/700 PC	25W	700mA	18-36V	STREET, CALLED STREET
OT 20/170240/1A0 1DIMLT2 G1 CE	20W	200-1050mA	10-38V	For the second section of the second second section of the section of the second section of the second section of the section of the second section of the sec

Stanley ZEUBE265 12 VIOLET Strip Thermal Interface Material Options

ILS has produced a range of high-performance, cost effective Thermal Interface Materials to match perfectly their standard products. Our product fills the air pockets between the two surfaces, forming a continuous layer to conduct heat away from the LED to the Heatsink.

Product	Non Adhesive	Single Sided Adhesive	Double Sided Adhesive	
ZEUBE265 1 VIOLET STRIP	ILA-TIM-VIOLET-275X20mm-0A	ILA-TIM-VIOLET-275X20mm-1A	ILA-TIM-VIOLET-275X20mm-2A	

Other sizes are available, including customised parts

Assembly Information

- The mounting of the VIOLET Strip has to be on a metal Heatsink.
- In order to optimise the thermal management, the metal surface needs to be clean (dirt and oil free) and planar for the best contact with the LED module. A thermal grease or heat transfer material is highly recommended.

Safety Information

- The LED module itself and all its components must not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- The mounting of the module is carried out by attaching it to the mounting holes. Metal mounting screws must be insulated with synthetic washers to prevent circuit board damage and possible short circuiting.
- To avoid mechanical damage to the connecting cables, the boards should be attached securely to the intended substrate. Heavy vibration should be avoided.
- Observe correct polarity! Depending on the product, incorrect polarity will lead to emission of red or no light. The module can be destroyed!
- Pay attention to standard ESD precautions when installing the VIOLET Strip.
- The VIOLET Strip, as manufactured, has no conformal coating and therefore offers no inherent protection against
- Damage by corrosion will not be accepted as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- For outdoor usage, a housing is definitely required to protect the board against environmental influences. The design of the housing must correspond to the IP standards in the application. It is also the responsibility of the user to ensure any housings or modifications keep the Tc junction temperature to within stated ranges.
- To also ease the luminaire/installation approval, electronic control gear for LED or LED modules should carry the CE mark and be ENEC certified. In Europe the declarations of conformity must include the following standards: CE: EC 61374-2-13, EN 55015, IEC 61547 and IEC 61000-3-2 - ENEC: 61374-2-13 and IEC/EN 62384.
- The evaluation of eye safety occurs according to the standard IEC 62471:2006 ("photobiological safety of lamps and lamp systems"). Within the risk grouping system of this CIE standard, the LED specified in this data sheet falls into the class "moderate risk" (exposure time 0.25s). Under real circumstances (for exposure time, eye pupils, observation distance), it is assumed that no endangerment to the eye exists from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect. As is also true when viewing other bright light sources (e.g. headlights), temporary reduction in visual acuity and afterimages can occur, leading to irritation, annoyance, visual impairment and even accidents, depending on the situation.



For further information please contact ILS

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

