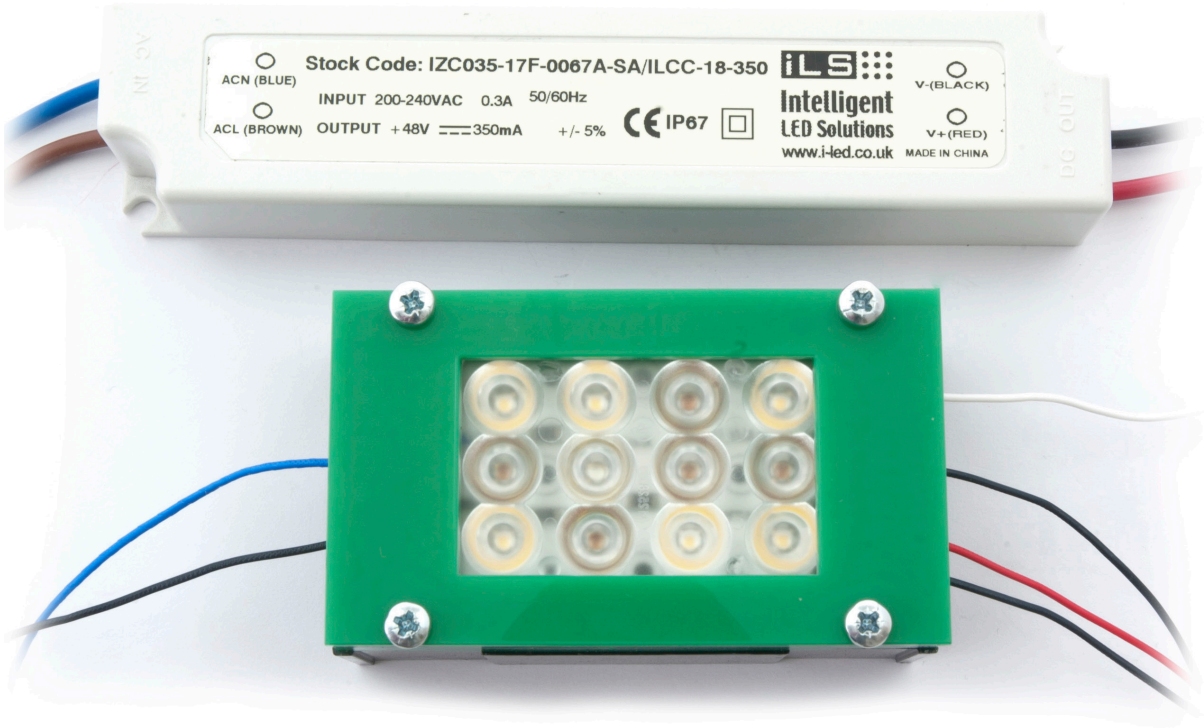
Petunia Development Kit

ILK-PETUNIA-XXX.



Kit Contents

Petunia Kit	LED Configuration	Application	Petunia Board Used
ILK-PETUNIA-01.	6 Warm White, 5 Hyper Red, 1 Deep Blue	General Purpose	ILR-OX12-6WM5HR1DB-PC211-W2.
ILK-PETUNIA-01S.	6 Warm White, 5 Hyper Red, 1 Deep Blue	General Purpose	ILR-OX12-6WM5HR1DB-SC211-W2.
ILK-PETUNIA-02.	9 Hyper Red, 3 Deep Blue	High Efficiency	ILR-OX12-9HR3DB-SC211-WIR200.
ILK-PETUNIA-03.	6 Hyper Red, 6 Deep Blue	Vegetative Growth	ILR-OX12-6HR6DB-SC211-WIR200.
ILK-PETUNIA-04.	3 Hyper Red, 9 Deep Blue	Seedlings	ILR-OX12-3HR9DB-SC211-WIR200.

1 x 78x46x25mm Silver anodised Heat Sink ILA-HSINK-78X46X25MM-SVR

4 x M3 – SCREWM3X20-PACK4.

1 x Heat Sink adaptor plate ILA-PETUNIA-BASEPLATE

2 x LEDiL Petunia Lens 28° C12528_PETUNIA

1 x Laser cut ring spacer ILA-PETUNIA-SPACER-01

1 x Laser cut top cap ILA-PETUNIA-TOPPLATE

1 x 350mA 17Watt Constant Current Driver - IZC035-017F-0067A-SA

1 x Quick Start Guide

QUICK START

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A division of Intelligent Group Solutions Ltd

For Further Information – please visit

- ILS Petunia Board
- ILS Heat sinks
- ILS Thermal Interface Material
- ILS Constant Current Power Supply

Assembly Information

Connect to the supplied driver white-red and black-black using connector blocks or alternative (not supplied). Connect driver wires brown and blue to mains (100-240V) using suitable mains plug (not supplied). Always connect Petunia to the driver before plugging in the driver.

The Petunia PCB has been wired in series meaning all LEDs will be illuminated equally when powered; if you wish to drive each chain separately please consult the Petunia datasheet for further information via this link:

www.i-led.co.uk/kit/petunia

CAUTION

- Never touch the LEDs as they are delicate and easy to damage physically and electronically
- Do not connect directly to mains (100-240V) – always use the driver provided
- Do not hot plug into the driver.

Important Information and Precautions

- The Petunia LEDs, when powered up are very bright. Thus it is advised that you do not look directly at it. Turn the Petunia away from you and do not shine into the eyes of others.
- Do not operate Petunia with a Power Supply with unlimited current. Connection to constant voltage Power Supplies that are not current limited may cause the Petunia to consume current above the specified maximum and cause failure or irreparable damage.
- Petunia, 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.

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Safety Information

- 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.
- 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 at 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 Petunia.
- The Petunia, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion.
- 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.

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