





16 LED Horticultural PowerCluster

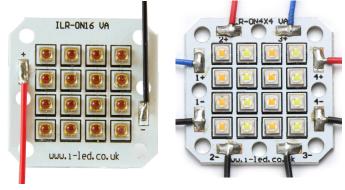
IHR-xx16-xxxx-SC2x1-WIR200

Product Overview

IHS PowerClusters are compact but powerful light sources for horticultural development. Size (L x W x H): 30mm x 30mm x 3.85mm with mounting holes using M3 screws allows easy installation

Available with 200mm connecting wires, chaining multiple PowerClusters together to form complex systems is very quick and simple - excellent for prototyping your design.

In our portfolio we have 3 types of PowerClusters available;



N3535: Industry standard 3535 package with a ceramic substrate for superior reliability at higher temperatures. UVA technology with offerings at 385, 395, 405 and 415nm.

Current range from 100 to 1000mA

OSRAM OSLON® SSL: OSLON® SSL delivers the high efficacy that is necessary for professional indoor and outdoor lighting. The ceramic based package with its superior corrosion robustness addresses perfectly the needs for long lifetime applications. Current range from 100 to 1000mA

OSLON Square: OSRAMs most compact 2W high power LED with extremely low thermal resistance, remarkable high efficiency, high reliable and superior corrosion robustness.

Current range from 200 to 1800mA

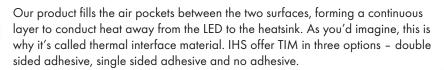
Many other wavelengths are available, such as IR, so if you don't see the wavelength value you are looking for, please ask.

Accessories Designed for the PowerCluster

Pre-tapped screw holes and mounting screws. Standard size of 70x70x55mm. They also come with Thermal Interface Material (TIM) attached to the top surface and mounting screws. Available in Black.



IHS have produced a range of High-performance, cost effective Thermal Interface Materials (TIM) to perfectly match their standard products.







IHS have developed a driver to help in the development of Tuneable White and RGB/RGBW LED products. The PSU can also be used with any system that requires up to 4 channels of controllable LED drive.

Select from our range of IP rated AC/DC LED drivers suitable for use with our range of LED engines. All tried and tested ready to plug and play...





The majority of the products in this flyer are available for sale through RS. If you require small quantities please go to their website to check their stock situation.





www.i-hled.co.uk

Product Options

IHS Part Number	Description	Typical Current mA	240-790nm Total radiometric flux	PAR 400-700nm PPF µmol/s	PAR 360-780nm PPF µmol/s
IHR-XO16-S380-SC211-WIR200.	TSLC N3535U 16 PowerCluster UV 385nm	350	6592 mW	1.14	21.26
IHR-XO16-S390-SC211-WIR200.	TSLC N3535U 16 PowerCluster UV 395nm	350	7232 mW	6.82	23.92
IHR-XO16-S400-SC211-WIR200.	TSLC N3535U 16 PowerCluster UV 405nm	350	7904 mW	22.29	26.93
IHR-XO16-S410-SC211-WIR200.	TSLC N3535U 16 PowerCluster UV 415nm	350	7904 mW	26.15	27.50
IHR-OM16-DEBL-SC221-WIR200.	OSLON 120 16 PowerCluster Deep Blue 445nm	350	11360 mW	42.83	42.90
IHR-OW16-BLUE-SC221-WIR200.	OSLON 150 16 PowerCluster Blue 465nm	350	9210 lm	35.82	35.88
IHR-OM16-TRGR-SC221-WIR200.	OSLON 120 16 PowerCluster True Green 519nm	350	5047 lm	22.09	22.09
IHR-OW16-YELL-SC221-WIR200.	OSLON 150 16 PowerCluster Yellow 594nm	350	2877 lm	14.24	14.24
IHR-OM16-RDOR-SC221-WIR200.	OSLON 120 16 PowerCluster Amber 617nm	350	8085 lm	42.11	42.11
IHR-OW16-RED1-SC221-WIR200.	OSLON 150 16 PowerCluster Red 625nm	350	7105 lm	37.44	37.44
IHR-OM16-HYRE-SC221-WIR200.	OSLON 120 16 PowerCluster Hyper Red 656nm	350	8000 mW	43.64	43.77
IHR-OM16-FRED-SC221-WIR200.	OSLON 120 16 PowerCluster Far Red 730nm	350	5040 mW	4.19	30.19
IHR-OW16-HW90-SC221-WIR200.	OSLON 150 16 PowerCluster Hot White 2700K 90 CRI	350	5145 lm	23.55	25.66
IHR-OW16-WM80-SC221-WIR200.	OSLON 150 16 PowerCluster Warm White 3000K 80 CRI	350	6728 lm	30.69	32.93
IHR-OW16-QZ90-SC221-WIR200.	OSLON 150 16 PowerCluster Quartz White 3500K 90 CRI	350	5552 lm	25.10	26.89
IHR-OW16-NW80-SC221-WIR200.	OSLON 150 16 PowerCluster Neutral White 4000K 80 CRI	350	5629mW	25.61	26.52
IHR-OW16-WH80-SC221-WIR200.	OSLON 150 16 PowerCluster White 5000K 80 CRI	350	7436 lm	32.84	34.27
IHR-OW16-UL70-SC221-WIR200.	OSLON 150 16 PowerCluster Ultra White 6500K 70 CRI	350	7867 lm	34.11	35.04
IHR-OG16-DEBL-SC221-WIR200.	OSLON Square 3rd Gen 16 PowerCluster Deep Blue 445nm	700	19888 mW	74.99	75.10
IHR-OG16-HYRE-SC221-WIR200.	OSLON Square 3rd Gen 16 PowerCluster Hyper Red 656nm	700	14000 mW	<i>7</i> 6.36	76.60
IHR-OG16-HW90-SC221-WIR200.	OSLON Square 3rd Gen 16 PowerCluster Hot White 2700K 90 CRI	700	8975 lm	41.08	44.76
IHR-OG16-WM80-SC221-WIR200.	OSLON Square 3rd Gen 16 PowerCluster Warm White 3000K 80 CRI	700	11 <i>7</i> 49 lm	53.59	57.49
IHR-OG16-QZ90-SC221-WIR200.	OSLON Square 3rd Gen 16 PowerCluster Quartz White 3500K 90 CRI	700	9716 lm	43.92	47.06
IHR-OG16-NW80-SC221-WIR200.	OSLON Square 3rd Gen 16 PowerCluster Neutral White 4000K 80 CRI	700	1206mW	54.88	56.84
IHR-OG16-WH80-SC221-WIR200.	OSLON Square 3rd Gen 16 PowerCluster White 5000K 80 CRI	700	13014 lm	57.47	59.98
IHR-OG16-UL70-SC221-WIR200.	OSLON Square 3rd Gen 16 PowerCluster Ultra White 6500K 70 CRI	700	13793 lm	59.80	61.44

For further information please contact IHS

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

Intelligent Horticultural Solutions is a division of Intelligent LED Solutions focusing on providing LED solutions to the rapidly evolving and highly important horticultural lighting market.