

1 LED Horticultural PowerStars

IHH-xx01-xxxx-SC2x1-WIR200

Product Overview

IHS PowerStars are our basic building block in horticultural development. Compact Size (L x W x H): 20mm x 20mm x 3.85mm with mounting holes using M3 screws allows easy installation.

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

In our portfolio we have 4 types of PowerStars available;

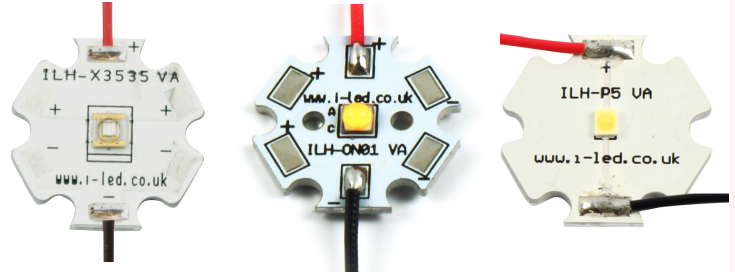
N3535: Industry standard 3535 package with a ceramic substrate for superior reliability at higher temperatures. UVA technology with offerings at 385, 395, 405 and 415nm. Current range from 100 to 1000mA

OSRAM OSOLON® SSL: OSOLON® 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

OSOLON 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

OSCONIQ® P2226: High-efficacy mid-power LED with long lifetimes also at high currents and high junction temperatures. Current range from 30 to 250mA

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 PowerStar

Secondary lens and reflectors from our lens partner LEDiL to enhance or widen the beam. LEDiL lens have mounting pins/clips which fit in conjunction to the PowerStar.



Heat Sink kits with pre-tapped screw holes and mounting screws. Standard lengths of 20,40,60 and 80mm. 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.



Our product fills the air pockets between the two surfaces, forming a continuous layer to conduct heat away from the LED to the heatsink. As you'd imagine, this is why it's called thermal interface material. IHS offer TIM in three options – double sided adhesive, single sided adhesive and no adhesive.



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.

Product Options

IHS Part Number	Description	Typical Current mA	240-790nm Total radiometric flux	PAR 400-700nm PPF $\mu\text{mol/s}$	PAR 360-780nm PPF $\mu\text{mol/s}$
IHH-XO01-S380-SC211-WIR200.	TSLC N3535U 1 PowerStar UV 385nm	350	412 mW	0.07	1.33
IHH-XO01-S390-SC211-WIR200.	TSLC N3535U 1 PowerStar UV 395nm	350	452 mW	0.43	1.49
IHH-XO01-S400-SC211-WIR200.	TSLC N3535U 1 PowerStar UV 405nm	350	494 mW	1.39	1.68
IHH-XO01-S410-SC211-WIR200.	TSLC N3535U 1 PowerStar UV 415nm	350	494 mW	1.63	1.72
IHH-OM01-DEBL-SC221-WIR200.	OSLON 120 1 PowerStar Deep Blue 445nm	350	710 mW	2.68	2.68
IHH-OW01-BLUE-SC221-WIR200.	OSLON 150 1 PowerStar Blue 465nm	350	575 lm	2.24	2.24
IHH-OM01-TRGR-SC221-WIR200.	OSLON 120 1 PowerStar True Green 519nm	350	315 lm	1.38	1.38
IHH-OW01-YELL-SC221-WIR200.	OSLON 150 1 PowerStar Yellow 594nm	350	179 lm	0.89	0.89
IHH-OM01-RDOR-SC221-WIR200.	OSLON 120 1 PowerStar Amber 617nm	350	505 lm	2.63	2.63
IHH-OW01-RED1-SC221-WIR200.	OSLON 150 1 PowerStar Red 625nm	350	444 lm	2.34	2.34
IHH-OM01-HYRE-SC221-WIR200.	OSLON 120 1 PowerStar Hyper Red 656nm	350	500 mW	2.73	2.74
IHH-OM01-FRED-SC221-WIR200.	OSLON 120 1 PowerStar Far Red 730nm	350	315 mW	0.26	1.89
IHH-OW01-HW90-SC221-WIR200.	OSLON 150 1 PowerStar Hot White 2700K 90 CRI	350	321 lm	1.47	1.60
IHH-OW01-WM80-SC221-WIR200.	OSLON 150 1 PowerStar Warm White 3000K 80 CRI	350	420 lm	1.92	2.06
IHH-OW01-QZ90-SC221-WIR200.	OSLON 150 1 PowerStar Quartz White 3500K 90 CRI	350	347 lm	1.57	1.68
IHH-OW01-NW80-SC221-WIR200.	OSLON 150 1 PowerStar Neutral White 4000K 80 CRI	350	350mW	1.6	1.66
IHH-OW01-WH80-SC221-WIR200.	OSLON 150 1 PowerStar White 5000K 80 CRI	350	464 lm	2.05	2.14
IHH-OW01-UL70-SC221-WIR200.	OSLON 150 1 PowerStar Ultra White 6500K 70 CRI	350	491 lm	2.13	2.19
IHH-OG01-DEBL-SC221-WIR200.	OSLON Square 3rd Gen 1 PowerStar Deep Blue 445nm	700	1243 mW	4.69	4.69
IHH-OG01-HYRE-SC221-WIR200.	OSLON Square 3rd Gen 1 PowerStar Hyper Red 656nm	700	875mW	4.77	4.79
IHH-OG01-HW90-SC221-WIR200.	OSLON Square 3rd Gen 1 PowerStar Hot White 2700K 90 CRI	700	560 lm	2.57	2.80
IHH-OG01-WM80-SC221-WIR200.	OSLON Square 3rd Gen 1 PowerStar Warm White 3000K 80 CRI	700	734 lm	3.35	3.59
IHH-OG01-QZ90-SC221-WIR200.	OSLON Square 3rd Gen 1 PowerStar Quartz White 3500K 90 CRI	700	607 lm	2.74	2.94
IHH-OG01-NW80-SC221-WIR200.	OSLON Square 3rd Gen 1 PowerStar Neutral White 4000K 80 CRI	700	750mW	3.43	3.55
IHH-OG01-WH80-SC221-WIR200.	OSLON Square 3rd Gen 1 PowerStar White 5000K 80 CRI	700	813 lm	3.59	3.75
IHH-OG01-UL70-SC221-WIR200.	OSLON Square 3rd Gen 1 PowerStar Ultra White 6500K 70 CRI	700	862 lm	3.74	3.84
IHH-P201-DEBL-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Deep Blue 445nm	100	200 mW	0.75	0.76
IHH-P201-BLUE-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Blue 465nm	100	110 lm	0.43	0.43
IHH-P201-TRGR-SC221-WIR200.	OSCONIQ P2226 1 PowerStar True Green 519nm	100	61 lm	0.27	0.27
IHH-P201-YELL-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Yellow 594nm	100	34 lm	0.17	0.17
IHH-P201-RED1-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Red 625nm	100	124 lm	0.66	0.66
IHH-P201-HYRE-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Hyper Red 656nm	100	120 mW	0.65	0.66
IHH-P201-FRED-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Far Red 730nm	100	66 mW	0.05	0.40
IHH-P201-HWWH-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Hot White 2700K	100	123 lm	0.57	0.60
IHH-P201-WMWH-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Warm White 3000K	100	135 lm	0.62	0.67
IHH-P201-QZWH-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Quartz White 3500K	100	139 lm	0.62	0.64
IHH-OG01-NW80-SC221-WIR200.	OSLON Square 3rd Gen 1 PowerStar Neutral White 4000K 80 CRI	700	750mW	3.43	3.55
IHH-P201-ULWH-SC221-WIR200.	OSCONIQ P2226 1 PowerStar Ultra White 6500K	100	137 lm	0.60	0.61

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.