

17 LED Horticultural PowerFloods

IHF-xx17-xxxx-SC2x1.

Product Overview

IHS PowerFloods are ideal for large area illumination in horticultural lighting. Size (L x W x H): 215mm x 194mm x 7mm with mounting holes using M3 screws allows easy installation.

Available with JST PH type connectors.

In our portfolio we have 3 types of PowerFloods 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

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 PowerFlood

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 PowerFlood.



Heat Sink kits with pre-tapped screw holes and mounting screws. They also come with Thermal Interface Material (TIM) attached to the top surface. 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.



This range of connection cables from IHS utilise a JST PH type connector for either power input or linking floods.

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 is 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 $\mu\text{mol/s}$
IHF-XO17-S380-SC221.	TSLC N3535U 17 PowerFlood UV 385nm	350	7004 mW	1.21	22.59
IHF-XO17-S390-SC221.	TSLC N3535U 17 PowerFlood UV 395nm	350	7684 mW	7.25	25.41
IHF-XO17-S400-SC221.	TSLC N3535U 17 PowerFlood UV 405nm	350	8398 mW	23.68	28.61
IHF-XO17-S410-SC221.	TSLC N3535U 17 PowerFlood UV 415nm	350	8398 mW	27.78	29.22
IHF-OM17-DEBL-SC221.	OSLON 120 17 PowerFlood Deep Blue 445nm	350	12070 mW	45.51	45.58
IHF-OW17-BLUE-SC221.	OSLON 150 17 PowerFlood Blue 465nm	350	9786 lm	38.05	38.12
IHF-OM17-TRGR-SC221.	OSLON 120 17 PowerFlood True Green 519nm	350	5363 lm	23.47	23.47
IHF-OW17-YELL-SC221.	OSLON 150 17 PowerFlood Yellow 594nm	350	3058 lm	15.13	15.13
IHF-OM17-RDOR-SC221.	OSLON 120 17 PowerFlood Amber 617nm	350	8590 lm	44.74	44.74
IHF-OW17-RED1-SC221.	OSLON 150 17 PowerFlood Red 625nm	350	7550 lm	39.77	39.78
IHF-OM17-HYRE-SC221.	OSLON 120 17 PowerFlood Hyper Red 656nm	350	8500 mW	46.36	46.50
IHF-OM17-FRED-SC221.	OSLON 120 17 PowerFlood Far Red 730nm	350	5355 mW	4.45	32.08
IHF-OW17-HW90-SC221.	OSLON 150 17 PowerFlood Hot White 2700K 90 CRI	350	5467 lm	25.02	27.26
IHF-OW17-WM80-SC221.	OSLON 150 17 PowerFlood Warm White 3000K 80 CRI	350	7149 lm	32.61	34.98
IHF-OW17-QZ90-SC221.	OSLON 150 17 PowerFlood Quartz White 3500K 90 CRI	350	5899 lm	26.67	28.57
IHF-OW17-NW80-SC221.	OSLON 150 17 PowerFlood Neutral White 4000K 80 CRI	350	5980mW	27.21	18.18
IHF-OW17-WH80-SC221.	OSLON 150 17 PowerFlood White 5000K 80 CRI	350	7902 lm	34.89	36.42
IHF-OW17-UL70-SC221.	OSLON 150 17 PowerFlood Ultra White 6500K 70 CRI	350	8359 lm	36.24	37.23
IHF-OG17-DEBL-SC221.	OSLON Square 3rd Gen 17 PowerFlood Deep Blue 445nm	700	21131 mW	79.68	79.79
IHF-OG17-HYRE-SC221.	OSLON Square 3rd Gen 17 PowerFlood Hyper Red 656nm	700	14875 mW	81.14	81.38
IHF-OG17-HW90-SC221.	OSLON Square 3rd Gen 17 PowerFlood Hot White 2700K 90 CRI	700	9536 lm	43.65	47.55
IHF-OG17-WM80-SC221.	OSLON Square 3rd Gen 17 PowerFlood Warm White 3000K 80 CRI	700	12484 lm	56.93	61.09
IHF-OG17-QZ90-SC221.	OSLON Square 3rd Gen 17 PowerFlood Quartz White 3500K 90 CRI	700	10323 lm	46.66	50.00
IHF-OG17-NW80-SC221.	OSLON Square 3rd Gen 17 PowerFlood Neutral White 4000K 80 CRI	350	12815mW	58.31	60.39
IHF-OG17-WH80-SC221.	OSLON Square 3rd Gen 17 PowerFlood White 5000K 80 CRI	700	13828 lm	61.06	63.73
IHF-OG17-UL70-SC221.	OSLON Square 3rd Gen 17 PowerFlood Ultra White 6500K 70 CRI	700	14656 lm	63.54	65.29

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.