

DATASHEET

bright green MATRIX



Bright Green Matrix™ is a modular IP67 LED system for general backlighting. Installation is simple, using a dedicated install kit or standard brackets. By varying the layout, the brightness, power requirement and capital cost can be controlled.



Specification - Single colour 25mm LED pitch

	155mm	310mm	610mm	910mm	1210mm	1510mm	1810mm
Product Code	MS-S25**-155	MS-S25**-310	MS-S25**-610	MS-S25**-910	MS-S25**-1210	MS-S25**-1510	MS-S25**-1810
Operating Voltage	24V						
Principal Materials	FR4 PCB, Aluminium						
Lumen Maintenance	>50.000 hours						
Colour Temperature*	2700K/3000K/4000K/5000K/6500K (2200K on request)						
Dimmable	Yes						
LED Pitch	25mm						
Weight	0.035Kg	0.07Kg	0.14Kg	0.21Kg	0.28Kg	0.35Kg	0.42Kg
Thickness	PCB: 1.2mm maximum including connectors: 5.5mm						
Power	1.9W	3.7W	7.4W	11.1W	14.8W	18.5W	22.1W
Lumens	235	459	917	1376	1834	2293	2739
Number of LEDs	6	12	24	36	48	60	72
CRI	Standard >80, >90 available on request						
Photo Biological Classification	IEC 62471 Exempt						

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Specification - Single colour 50mm LED pitch

	310mm	610mm	910mm	1210mm	1510mm	1810mm
Product Code	MS-S50**-310	MS-S50**-610	MS-S50**-910	MS-S50**-1210	MS-S50**-1510	MS-S50**-1810
Operating Voltage	24V					
Principal Materials	FR4 PCB, Aluminium					
Lumen Maintenance	>50.000 hours					
Colour Temperature*	2700K/3000K/4000K/5000K/6500K (2200K on request)					
Dimmable	Yes					
LED Pitch	50mm					
Weight	0.07Kg	0.14Kg	0.21Kg	0.28Kg	0.35Kg	0.42Kg
Thickness	PCB: 1.2mm maximum including connectors: 5.5mm					
Power	1.8W	3.6W	5.6W	7.4W	9.3W	11.2W
Lumens	223	446	694	917	1152	1388
Number of LEDs	6	12	18	24	30	36
CRI	Standard >80, >90 available on request					
Photo Biological Classification	IEC 62471 Exempt					



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Specification - Dynamic white 25mm LED pitch

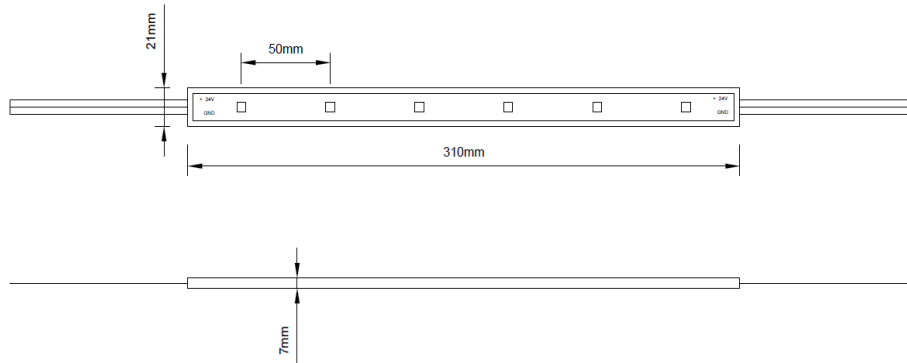
	155mm	310mm	610mm	910mm	1210mm	1510mm	1810mm
Product Code	MS-S25DW*-155	MS-S25DW*-310	MS-S25DW*-610	MS-S25DW*-910	MS-S25DW*-1210	MS-S25DW*-1510	MS-S25DW*-1810
Operating Voltage	24V						
Principal Materials	FR4 PCB, Aluminium						
Lumen Maintenance	>50.000 hours						
Colour Temperature*	2700-6500K range (2200K on request)						
Dimmable	Yes						
LED Pitch	25mm						
Weight	0.035Kg	0.07Kg	0.14Kg	0.21Kg	0.28Kg	0.35Kg	0.42Kg
Thickness	PCB: 1.2mm maximum including connectors: 5.5mm						
Power per channel*	1.8W	3.6W	7.10W	10.6W	14.2W	17.8W	21.4W
Lumens per channel*	246	491	969	1447	1938	2429	2920
Number of LEDs per channel	6	12	24	36	48	60	72
CRI	Standard >80, >90 available on request						
Photo Biological Classification	IEC 62471 Exempt						

* max operating level

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Dimensions - 310mm example



Electrical connection

25mm pitch-connect to a 24V LED driver. If connected in series, the total length of the group must not exceed 2 metres
50mm pitch-connect to a 24V LED driver. If connected in series, the total length of the group must not exceed 4 metres

Operational notes

Operating temperature range: -30° to 85°C. Storage temperature range: -30° to 85°C. Voltage range: 24V DC (50mm).
Reverse voltage: 24V DC (50mm).

Avoid mechanical stress during and after installation. Avoid straining the cable or cable/module join.

Bright Green Matrix is not recommended for external marine environments.

Bright Green Matrix is ECA compliant for amenity, accent and display lighting.

Connection

Installation should be carried out by suitably qualified personnel. Please see the Bright Green Matrix install guide for electrical connection and handling guidelines Please see the Bright Green Matrix install guide for electrical connection and handling guidelines