

VL5

Everyday channel letter lighting solutions



12
VDC

Mini,
Standard, HO

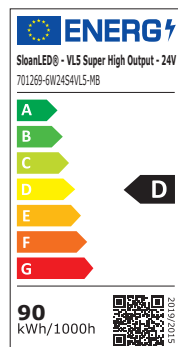
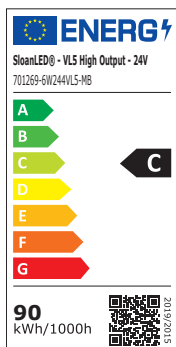
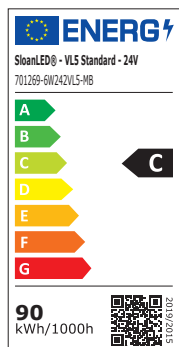
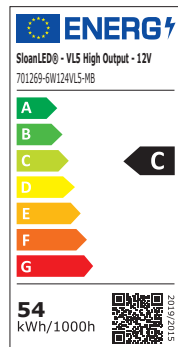
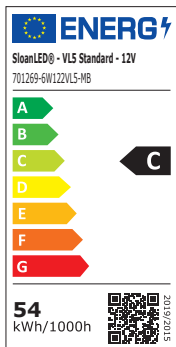
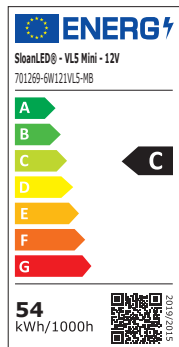
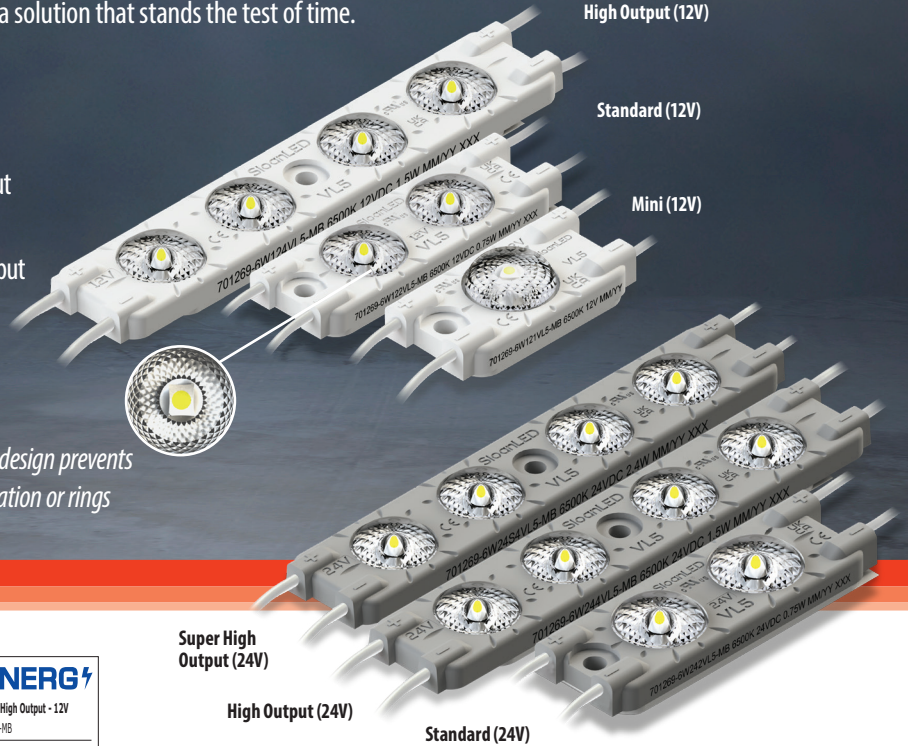
24
VDC

Standard, HO,
Super HO

VL5 is the next generation, everyday LED lighting solution for illuminating a wide range of sign and display applications. VL5 shatters expectations with prism lens technology for an ultra-wide radiation pattern, impressive light output, continuous release liner for faster installation, and a lifetime rating of over 54,000 hours—delivering both value and performance in a solution that stands the test of time.

- Improved optics making VL5 the most powerful and efficient lighting option in its class
- Available in 12VDC – Mini, Standard, and High Output (White 3000 K, 4000 K, 5000 K, 6500 K, 7200 K), and 24VDC – Standard, High Output, and Super High Output (White 3000 K, 4000 K, 5000 K, 6500 K, 7200 K)
- Use fewer modules for faster installation and lower cost per sign

Innovative design prevents color separation or rings



3000 K, 4000 K,
5000 K, 6500 K,
7200 K



IP66/68
construction



>70



-40° C - +60° C



>54,000 hours



165°



173 lm/W



Constant
Current



Specifications subject to change without notice.



SloanLED®
A Principal Industries Company

VL5

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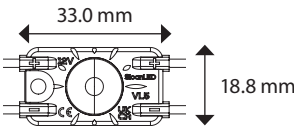
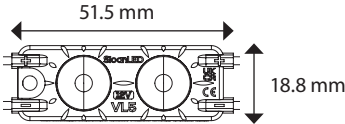
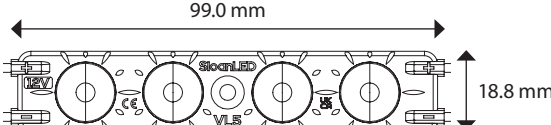
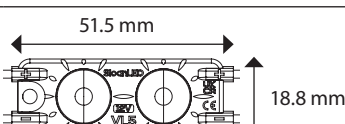
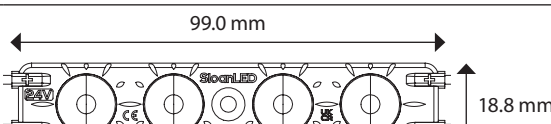
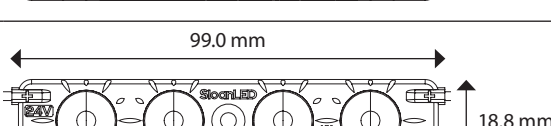
12
VDC

Mini,
Standard, HO

24
VDC

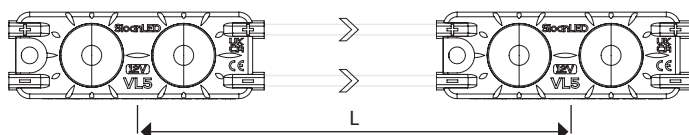
Standard, HO,
Super HO

Specifications

MODEL	LEDS	L×W×H		OPTIMAL CAN DEPTH
Mini (12VDC)	1	33.0 mm × 18.8 mm × 8.88 mm		35 - 100 mm
Standard (12VDC)	2	51.5 mm × 18.8 mm × 8.88 mm		50 - 150 mm
HO (12VDC)	4	99.0 mm × 18.8 mm × 8.88 mm		125 - 300+ mm
Standard (24VDC)	2	51.5 mm × 18.8 mm × 8.88 mm		50 - 150 mm
HO (24VDC)	4	99.0 mm × 18.8 mm × 8.88 mm		125 - 300+ mm
Super HO (24VDC)	4	99.0 mm × 18.8 mm × 8.88 mm		175 - 300+ mm

Module spacing

Mini (12VDC) 151.5 mm maximum module spacing, 115.5 mm wire length
 Standard (12VDC) 250.0 mm maximum module spacing, 194.5 mm wire length
 HO (12VDC) 476.2 mm maximum module spacing, 377.2 mm wire length
 Standard (24VDC) 250.0 mm maximum module spacing, 194.5 mm wire length
 HO (24VDC) 476.2 mm maximum module spacing, 377.2 mm wire length
 Super HO (24VDC) 500.0 mm maximum module spacing, 401.0 mm wire length



Viewing angle 165°

Operating temperature -40° C to +60° C

Optional dimming 0-10 V, PWM, and resistor dimming via SloanLED dimmable drivers

Fastening Peel-n-stick 3M foam tape with continuous release liner, mechanical

Protection class IP66/68 construction

Binning 3-Step MacAdam Ellipse

Lifetime rating >54,000 hours

Wire gauge 18 AWG (0.75mm²)

Warranty Life of Sign / 10-year limited labor

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12 VDC
Mini,
Standard, HO

24 VDC
Standard, HO,
Super HO

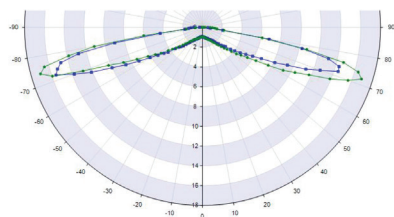
12 VDC

MODEL	MODS/M	CCT/NM	PART NUMBER	CRI	POWER/MOD	LUMENS/MOD (NOMINAL)	EFFICACY	MODS/CHAIN	PACKAGING
Mini	6.6	3000 K	701269-3W121VL5-MB	>70	0.375 W	65	173 lm/W	75	11.4 m (75 modules) per daisy chain, 2 daisy chains per bag, 3 bags per carton. Carton dimensions (L × W × H): 37 × 32 × 12.5 mm Carton weight: 4.46 kg
		4000 K	701269-4W121VL5-MB						
		5000 K	701269-5W121VL5-MB						
		6500 K	701269-6W121VL5-MB						
		7200 K	701269-7W121VL5-MB						
Standard	4.0	3000 K	701269-3W122VL5-MB	>70	0.75 W	130	173 lm/W	36	9.0 m (36 modules) per daisy chain, 2 daisy chains per bag, 8 bags per carton. Carton dimensions (L × W × H): 42 × 35 × 20 mm Carton weight: 9.06 kg
		4000 K	701269-4W122VL5-MB						
		5000 K	701269-5W122VL5-MB						
		6500 K	701269-6W122VL5-MB						
		7200 K	701269-7W122VL5-MB						
HO	2.1	3000 K	701269-3W124VL5-MB	>70	1.50 W	260	173 lm/W	18	8.6 m (18 modules) per daisy chain, 2 daisy chains per bag, 12 bags per carton. Carton dimensions (L × W × H): 51 × 32 × 18 mm Carton weight: 12.43 kg
		4000 K	701269-4W124VL5-MB						
		5000 K	701269-5W124VL5-MB						
		6500 K	701269-6W124VL5-MB						
		7200 K	701269-7W124VL5-MB						

24 VDC

MODEL	MODS/M	CCT/NM	PART NUMBER	CRI	POWER/MOD	LUMENS/MOD (NOMINAL)	EFFICACY	MODS/CHAIN	PACKAGING
Standard	4.0	3000 K	701269-3W242VL5-MB	>70	0.75 W	130	173 lm/W	60	15.0 m (60 modules) per daisy chain, 2 daisy chains per bag, 4 bags per carton. Carton dimensions (L × W × H): 42 × 32 × 14.5 mm Carton weight: 7.55 kg
		4000 K	701269-4W242VL5-MB						
		5000 K	701269-5W242VL5-MB						
		6500 K	701269-6W242VL5-MB						
		7200 K	701269-7W242VL5-MB						
HO	2.1	3000 K	701269-3W244VL5-MB	>70	1.50 W	260	173 lm/W	30	14.3 m (30 modules) per daisy chain, 2 daisy chains per bag, 8 bags per carton. Carton dimensions (L × W × H): 46 × 32 × 20 mm Carton weight: 13.69 kg
		4000 K	701269-4W244VL5-MB						
		5000 K	701269-5W244VL5-MB						
		6500 K	701269-6W244VL5-MB						
		7200 K	701269-7W244VL5-MB						
Super HO	2.0	3000 K	701269-3W24S4VL5-MB	>70	2.40 W	390	162 lm/W	19	9.5 m (19 modules) per daisy chain, 2 daisy chains per bag, 8 bags per carton. Carton dimensions (L × W × H): 41 × 32 × 19 mm Carton weight: 8.92 kg
		4000 K	701269-4W24S4VL5-MB						
		5000 K	701269-5W24S4VL5-MB						
		6500 K	701269-6W24S4VL5-MB						
		7200 K	701269-7W24S4VL5-MB						

Luminous Intensity Distribution



VL5 Mini, Standard, and HO (12V);
VL5 Standard, HO, and Super HO (24V)

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Power Supply Capacity

	VL5 MINI	VL5 STANDARD	VL5 HO
12 VDC POWER SUPPLY	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)
30 W (EU/ROW ONLY)	11.4 m / 75 mods	9.0 m / 36 mods	8.6 m / 18 mods
60 W	22.7 m / 150 mods	18.0 m / 72 mods	17.1 m / 36 mods
100 W (EU/ROW ONLY)	36.7 m / 242 mods	30.0 m / 120 mods	28.6 m / 60 mods
150 W (EU/ROW ONLY)	55.2 m / 364 mods	45.0 m / 180 mods	42.8 m / 90 mods

	VL5 STANDARD	VL5 HO	VL5 SUPER HO
24 VDC POWER SUPPLY	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)
30 W (EU/ROW ONLY)	9.0 m / 36 mods	8.6 m / 18 mods	5.5 m / 11 mods
60 W	18.0 m / 72 mods	17.1 m / 36 mods	11.0 m / 22 mods
100 W (EU/ROW ONLY)	30.0 m / 120 mods	28.6 m / 60 mods	19.0 m / 38 mods
150 W (EU/ROW ONLY)	45.0 m / 180 mods	42.8 m / 90 mods	28.0 m / 56 mods

Density Guidelines

SIZE	MODULE COLOR	CAN DEPTH	SINGLE ROW		MULTIPLE ROW		
			MAX STROKE WIDTH (MODULE CENTER-TO-CENTER)	LINEAR SPACING (MOD/M)	LINEAR SPACING (MM)	ROW SPACING (MM)	MOD/M ²
Mini (12VDC)	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)	37.5 mm	75	13.1	50	50	400.0
		50 mm	125	7.9	150	150	44.4
		75 mm	200	6.6	150	250	26.7
		100 mm	250	6.6	150	300	22.2
Standard (12 & 24VDC)	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)	50 mm	150	6.6	175	175	32.7
		75 mm	250	4.0	250	250	16
		100 mm	300	4.0	250	350	11.4
		125 mm	350	4.0	250	400	10.0
		150 mm	400	4.0	250	450	8.9
HO (12 & 24VDC)	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)	125 mm	400	2.5	450	450	4.9
		150 mm	425	2.3	475	500	4.2
		175 mm	475	2.1	475	575	3.7
		200 mm	525	2.1	475	650	3.2
Super HO (24VDC)	White (3000 K, 4000 K, 5000 K, 6500 K, 7200 K)	200 mm	525	2.0	500	650	3.1
		225 mm	575	2.0	500	700	2.9
		250 mm	600	2.0	500	750	2.7

Notes:

- Test results based on Plexiglas WN071 3 mm acrylic, 30% translucency.
- It is recommended that you first test LED density in sample letter/cabinet to evaluate brightness, uniformity and color.
- Should you have questions or require assistance in testing, please contact your SloanLED customer service representative.
- > Symbol represents greater than. < Symbol represents less than. ≥ Symbol represents greater than or equal to.
- For multiple rows, calculate half of the row spacing given from the table and start first row offset that distance from return.
- Products can be used in can depths deeper or shallower than listed above, but testing is recommended.

These guidelines are intended to provide only an approximation of product required for your sign, assuming an optimal balance of performance and cost. SloanLED is not responsible for the actual results based on the use of these guidelines.

Specifications subject to change without notice.

SloanLED channel letter products are covered by US and foreign patents pending and covered by one or more of the following US patents issued: 6,932,495, 7,241,031, 7,520,771.

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