

MODEL: BKT41S-41-12V Series Http: www.xinelam.com

Description: BKT41S-41-12V LED lattice backlight (LED curtain, LED bamboo slips) Patent No.:ZL201220134846. LATTICE LED Matrix Lighting System is the most versatile and practical illumination solution for indoor and outdoor sign cabinets and large area illumination. Innovative design of LATTICE system comes in lightweight easy-to-install rolls, which allows for easy population of perfectly spaced LEDs in minutes for uniform backlit lighting.

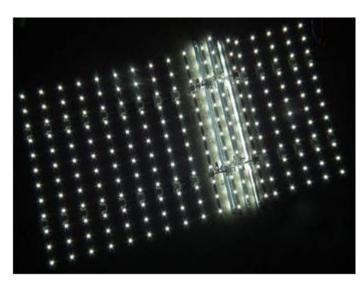


Features:

- 1. Highest luminous efficiency 100Lm/W; The actual test in excess of 50% optical efficiency than similar products.
- 2. 41.6mm (1.64") Perfect square Matrix
- 3. Minimal depth required at 60mm distance no hot spots on the graphic!
- 4.Available in 500mm,250mm and 125mm widths and max 2M/6.56ft length rolls
- 5. Warranty: 3 years

Scope of applications:

Dedicated direct type backlight, advertising signs backlight, Advertising light boxes.

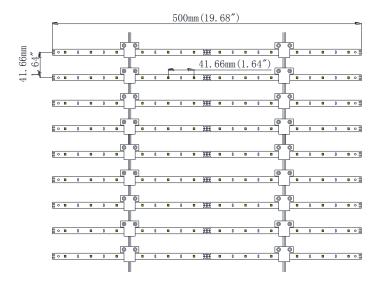


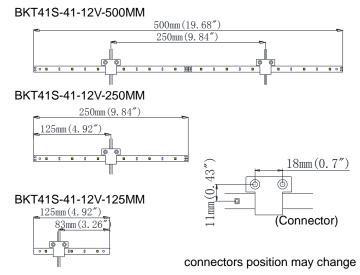
LED to LED	<u>CRI > 85</u>	
	Luminous efficiency	
41.6mm/1.64"	100Lm/W DC12V	

Bar to Bar	<u>Brightness</u>
41.6mm/1.64"	12900Lm/m ²
(Optional 60mm)	1200Lm/sqft

LED to face distance > 60mm/2.36"

Power Consumption 129W/m² 12W/sqft





^{*}Tolerance range for optical and electrical data: ±10 %. Life 40000hours@25 °C



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Application specs

MODEL	BKT41S-41-12V	
Single-sided/Double-sided	Single-sided	
Brightness Level	Top Highest brightness	
Brightness	1200Lm/sqft	
Min. Cabinet Depth*	>60mm (2.36")	
Default Colors	CW 6000~6500K	
Other Colors*	WW 2700~3200K	
	NW 4000~4500K	
Waterman of Dallan	Non waterproof	
Waterproof Rating	(Optional Conformal Coated, IP66)	
Application Environment	Dry & Damp Locations	
Operating Temperature	-22°F~158°F (-30~70°C)	
Certification	CE RoHS FCC	

Minimum distance required from Lattices to face. Calculated with 2447 milky white acrylic with no graphics

Depth on faces with graphics can nave thinner cabinet depths

Consult with XineLam for samples and depth demonstrations

Special Order. Consult with XineLam Reps and Distributors

Power load recommendations

SKUs	BKT41S-41	BKT41S-41	BKT41S-41	
SKUS	12V-500MM	12V-250MM	12V-125MM	
HLG-120H-12B	45bars	90bars*	180bars*	
Power 120W	1.87m / 6.1ft			
CC+CV Driver	1m ² / 10.76sqft			
NES-75-12	24bars	38bars	76bars	
Power 75W	1m/3.28ft	2m/6.56ft	4m/13.12ft	
CV driver	0.5m ² / 5.38sqft			
Recommended	Dimming power + PWM signal(Option1-10V)			
Dimming system	HLG-120H-12B + DM-IR8A			
Other	CV power + PWM signal + PWM amplifier			
Dimming system	NES-75-12 + DM-IR8A + CDA-02			

12V LED lattice – Max Series connection 48bars(2m/6.56ft), If you need more series connection length: select 24V or built-in constant current (12-48V).

*Calculations are based on 85% max load on CV power supplies

Electrical specs

SKUs		BKT41S-41	BKT41S-41	BKT41S-41	
		12V-500MM	12V-250MM	12V-125MM	
Operating Voltage		12V DC			
bar		2.7W/bar	1.35W/bar	0.675W/bar	
_	Power sqft m² consumption L:ft L:M		12W/sqft	12W/sqft	12W/sqft
			129W/m ²	129W/m ²	129W/m ²
consumpt			19.7W/ft	9.85W/ft	4.9W/ft
			64W/m	32W/m	16W/m
\	12	2bar	-0.07V	-0.07V	-0.05V
Voltage	0.5n	n/1.6ft	32.4W	16.2W	8.1W
Drop*	24	lbar	-0.26V	-0.26V	-0.10V
/Roll — length	1m/	3.28ft	64W	32W	16W
	48	Bbar	-0.82V	-0.82V	-0.8V
	2m/	6.56ft	118W	59W	30W
luminous efficiency			100Lm/W		

Voltage drop: Start bar to the end bar voltage difference between.

Series connection length: Max 48bar 2m

Configuration specs

SKUs		BKT41S-41	BKT41S-41	BKT41S-41	
		12V-500MM	12V-250MM	12V-125MM	
LED Pitch		41.6mm / 1.64"			
Bar to Bar Pite	ch*	41.6mm / 1.64"			
Bar Length	mm	500mm	250mm	125mm	
(Roll width)	Inches	19.68"	9.84"	4.92"	
#1	/ bar	12LED/bar	6LED/bar	3LED/bar	
#Lamps LED QTY	/ sqft	54LED / sqft			
LEDQII	/ m ²	576LED / m ²			
	Area	4bar/sqft	8bar/sqft	16bar/sqft	
	Alea	48bar/ m ²	96bar/ m ²	192bar/ m ²	
#Bars	Lavadh	7.27bar/ft	7.27bar/ft	7.27bar/ft	
#Dais	Length	24bar/m	24bar/m	24bar/m	
	10ft	36Bar / 4.9ft			
	/Roll	36bar / 1.5m Roll			
Cut Increment Every 3 LED					

Bar to Bar pitch:

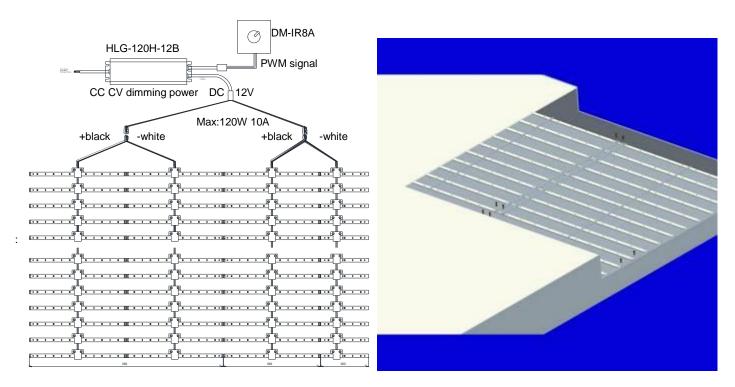
You can choose 60mm pitch product, installation adjustments to reduce bar to bar of size

Packaging: 3m/Roll (72bar/Roll)



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Wiring Diagram



CAUTION: This product is installed by a professional engineering staff.

Safety Information

- 1. The LED lattice (curtain) itself and all its components may not be mechanically stressed.
- 2. Assembly must not damage or destroy conducting paths on the circuit board.
- 3. Installation of LED lamp (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- 4. Correct electrical polarity needs to be observed. Wrong polarity may destroy the LED lattice (curtain).
- 5. Please ensure that the power supply of adapters power to operate the total load.
- 6. When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation points between strip and the mounting surface.
- 7. Pay attention to standard ESD precautions when installing the LED lattice (curtain).
- 8. Damaged by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- 9. Non Waterproof LED lattice (curtain)
- 10. LED lattice (curtain) can't be used as support, you need fixed in the frame, fixed to the wall, otherwise, may cause deformation.
- 11. Please be sure you choose right AC/DC power adaptor to drive LED lattices. If you have difficulty to buy such adaptor locally, please turn to us. (If you use poor quality of the LED power supply; LED lattice (caused damage, we will not warranty).