

## Our Most Affordable Solution

### Kestrel Series

## KS-2100 & KS-2100W24V



### Specifications

Viewing Angle	180° Kestrel Optics
Input Voltage	12vDC (KS-2100) 24vDC (KS-2100W24V)
Watts	1w/mod (1.5w/ft)
Luminous Efficacy	165 (lm/W)
Modules/Foot	1.5/ft (fully stretched)
Protection Grade	IP65 waterproof
Packaging KS-2100 (12V)	Anti-static bag, 80 modules (53ft)/bag, 10 bags/box
Packaging KS-2100W24V	Anti-static bag, 60 modules (40ft)/bag, 10 bags/box
Warranty	10 Year (Product) / 5 Year (Labor)
Operating Temp.	-40° ~ +60°C   -40° ~ +140°F
Storage Temp.	-40° ~ -70°C   -40° ~ +158°F
KS-2100 Cascade	20 mods single-ended power feed 40 mods double-ended power feed
KS-2100W24V Cascade	30 mods single-ended power feed 60 mods double-ended power feed

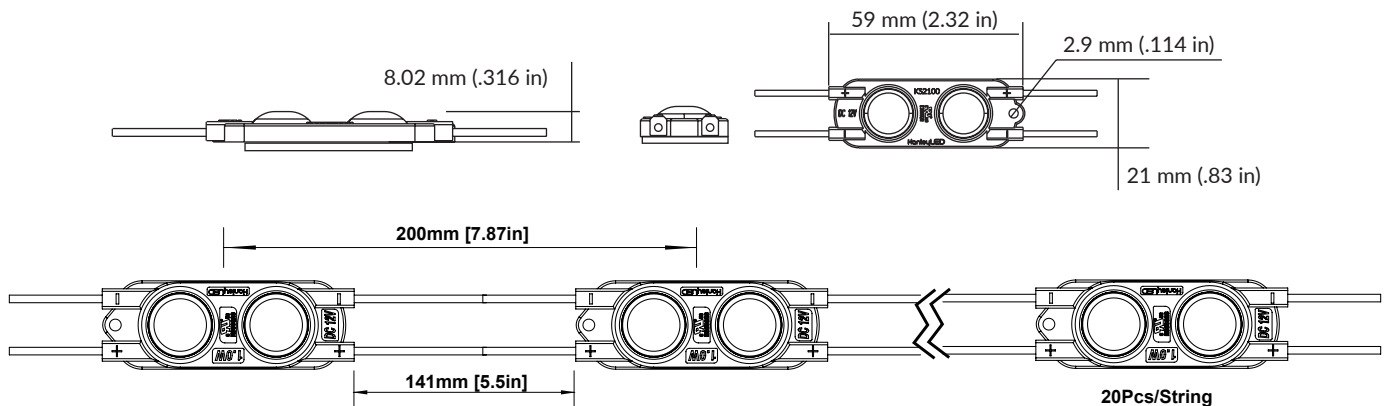


	MAX Power Supply Load						
Model	35W	60W	100W	120W	150W	180W	240W
KS-2100 (12V)	35 mods	60 mods	100 mods	120 mods	240 mods	180 mods	240 mods

	MAX Power Supply Load						
Model	35W 24v	60W 24v	96W 24v	100W 24v	192W 24v	240W 24v	288W 24v
KS-2100W24V	35 mods	60 mods	96 mods	100 mods	192 mods	240 mods	288 mods

Color	Part #	Color Temp	Lumens
Pure White	HLED-KS2100W	7500K	165 lm/mod (247 lm/ft)
Pure White	HLED-KS2100W24V	7500K	165 lm/mod (247 lm/ft)
Cool White	HLED-KS2100W10K	10000K	165 lm/mod (247 lm/ft)

### Profile Drawings



## 12 Volt vs 24 Volt Comparison

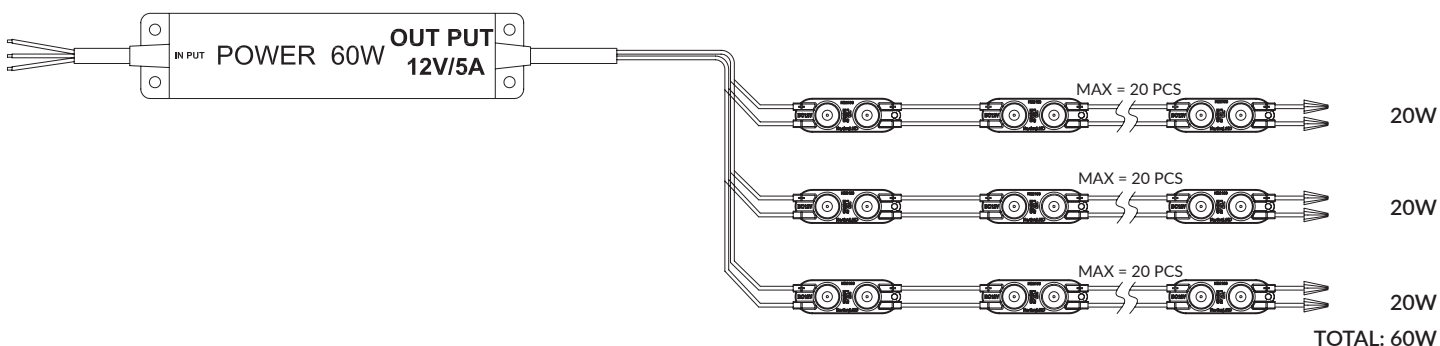
The number of mods per power supply of our 12v Kestrel mods is the SAME as our 24v mods.

### MAIN DIFFERENCE BETWEEN 12v AND 24v

- A) The only key functional advantage of 24 volt vs. 12 volt is the number of modules you can wire in a series together to avoid too much voltage-drop. Too much voltage drop could result in uneven brightness.
- B) These days, most Cabinet products are 24 volt. Using 24 volt modules can help you streamline your inventory and improve your cash flow by using the same voltage power supply for all of your signs.

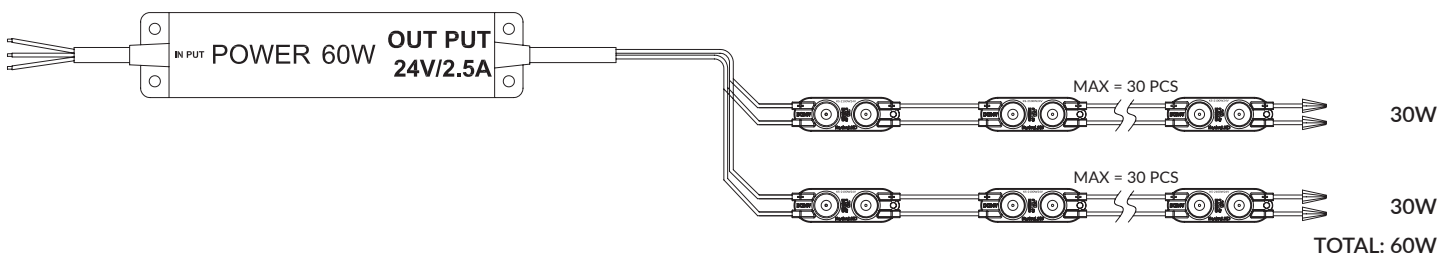
### KS-2100 12 volt (single-ended wire in a series) 20 Modules

MAX 20 modules in a series



### KS-2100W24V 24 volt (single-ended wire in a series) 30 Modules

MAX 30 modules in a series



#### Why is a longer “daisy chain” limit preferred?

- A) Less labor for wiring and less extra “rip strip” needed to complete the wiring for your sign.
- B) Reduces “shop mistakes”/“install error”. When a sign fabricator is busy, it’s easy for an installer to wire in a series too many LEDs together. This causes the sign to be dimmer in one spot vs another (resulting in uneven lighting). At that point, it can cost a sign fabricator hundreds, if not thousands of dollars to re-wire the sign. So using 24 volt modules can be a time & money saver.

When you reach the “daisy chain” limit of a module, but still have more modules to attach to the power supply, you have a couple options:

- A) Cap the last module in the LED chain, and connect another strip of LED wire (ex: Paige Rip Strip) to the power supply and run it to your next chain of LEDs.
- B) Attach more LEDs to your original LED chain, but run a strip of LED wire from the last module of the series back to the power supply (This is called a “Home Run” or a “Double Ended Power Feed”).