ARISTO
electronics · mechanical products
R&D and manufacturing



Penta-Lite creates a variety of visual effects as a spotlight for glass and translucent objects.

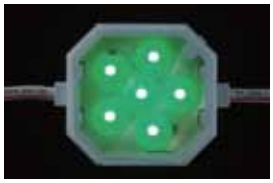
Slim design and special lens effects for a wider range of illumination, providing even lighting for thin and large-letter lighted signs.

LED PENTA-LITE

- ☐ **Slim modules are just 11 mm thick, perfect for outdoor/indoor signages, light box and decorative lightings.**
- ☐ **Deliver high brilliance with an energy use of only 0.72W. Can be used in series of up to 50 units.**
- ☐ **Easy to install – just affix with durable, weather-proof tape or simply screw in place. Can be cut to any length and combined with slim-type modules to meet a wide range of needs.**

Mecha-Chemi-Tronics: Aristo combines mechanical, chemical and electronics technology to develop safe, reliable, and high-quality products.







Advantages of LEDs (Light Emitting Diodes)

ECO
LEDs are environmentally friendly and contain no mercury, lead, or other toxic substances

Energy Saving
LEDs use far less electricity than fluorescent and neon tubes.

Long Lasting
LEDs have a lifespan of 50,000 hours, greatly reducing maintenance costs.

*For white LEDs

Safety
LEDs offer superior safety as well, emitting little heat and reducing stress on the medium.

Features of Aristo's LED Modules

Resin Fill-less Construction
Shifts in temperature cause resin-filled LEDs to expand and contract, creating stress on the resin, electric components, and solder. This stress can affect color temperature and lifespan. Aristo products use a unique resin fill-less design for reliable, long-lasting performance.

Special Lens Effects
Aristo LEDs employ a unique lens design that focuses and diffuses light to achieve a wider, brighter illumination. This design provides more even, more brilliant illumination while still keeping energy use low.

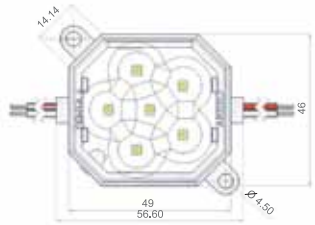
IP67-Equivalent Water Resistance Grade
Aristo LEDs' waterproof construction makes them suitable for outdoor use.

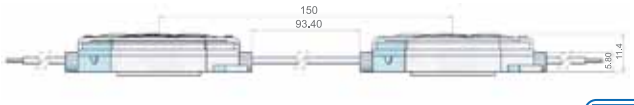

Light display at Singapore's Changi Airport Terminal 3

Penta-Lite Basic Specification

Model	PENTA-LITE	Type	Lens type	Max. no. in serial connection	50
Product number	APL-W	Color	White, blue, green, red, warm white	Operating temperature	-20°C ~ +60°C
LED type	Chip LED	No. of LEDs	6	Storage temperature	-30°C ~ +65°C
Chip LED arrangement	Pentagonal +1 in center	Input voltage	DC12V	Product weight	20g
Size (mm)	L49 x W46 x H11.4	Power consumption	0.72W * for white LEDs	Packing unit	10 (10 units/string)







- Uses Nichia Corp. LED elements. * white and warm white LEDs
- All Aristo LED modules are compliant with RoHS protocols.(as of 2/15/2008)

GENUINE NICHIA LED®

☐ **Optional Switching Power Supply:** Dedicated switching power supply (12V) from Densei Lambda

Model	HWS50-12/A	HWS100-12/A	HWS150-12/A
Output voltage	DC12V		
Output power	50W	100W	150W
Input voltage range	85 – 265VAC		
No. of connected units *1, *2	52	104	156

* Power sources are also available in 300W and higher.



*1: Safety rate of switching power supply is calculated at 75%.
Ex) 100W x 75% = 75 W 75W ÷ 0.72W (Penta-Lite energy use) = 104 units
*2: Please note that the number of connections differs from the maximum number of serial connections.

*Please note that product specifications may change without prior notice.
*Due to printing, the color tone of the product may appear different to the actual product.

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