Penta RGB Grande CV

ARISTO electronics•mechanical products R&D and manufacturing

DC24V

External Driver

Custom Order

Dynamic and Dimmable

High Performance Wide Angle Lighting LED Module

- Design for wide and colour changing light distribution system
- DC24V constant voltage driven technology
- Suitable for huge signage and ceiling light application
- Easy to install and flexible, good for on-site installation
- Come with 15 numbers of modules in one chain
- Significant reduction in the LED quantity for larger lighting area
- Dimmable and controllable with standard SPI and DMX protocol

Order / Model Code

APC1V24	-	* * * *	_	*
Product name	-	Colour		LED Version

DRGB	: 3 in 1 (IC)
RGB	: 3 in 1
SR	: Std. Red
SG	: Std. Green
SB	: Std. Blue

LED Version: X

Specification (@25°)

Models	LED CCT	Lumen (lm)	Rated Power (W)	Pitch (mm)	Size (mm) L X W X H	Avg. Module Weight(g)
APC1V24-DRGB_X (IC)	Red/Green/Blue (LED 3 in 1)	62 @ White	1.44 @ White	300	65 X 49 X 6.7	24.00
APC1V24-RGB_X (Non IC)	Red/Green/Blue (LED 3 in 1)	62 @ White	1.44 @ White			
APC1V24-SR_X	Standard Red	84	2.40			
APC1V24-SG_X	Standard Green	168	2.40			
APC1V24-SB_X	Standard Blue	44	2.40			

General / Others Specification
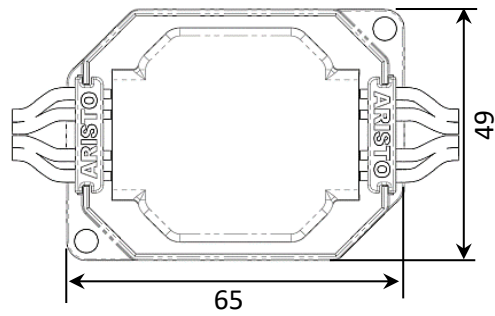
Items	Specification
Input Voltage (Constant)	DC24V
Luminaire Certified By	NA
Expected LED Life Span	20,000hrs @ 25°C
Beam angle	120° (LED), Flat cover
LED module pitch	300 ±10mm
Wire gauge	AWG18
3 Wire color code for IC type	White=Gound / Red= 24VDC / Green=Data
4 Wire color code for Non-IC type	White=DC24V / Red=Red LED / Green=Green LED / Blue=Blue LED
No.module per string	15pcs
Environment	Design to comply outdoor IP67
Body Material	Polycarbonate
Dimming / Controller	Non IC type = DMX protocol or other / Dynamic IC type = SPI protocol
Mounting Method	Double Sided Tape, M4 Screws (Optional)
Operation Temperature / Humidity	-20°C ~ 50°C / 20% ~ 85% RH

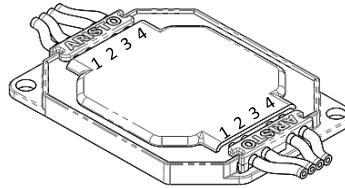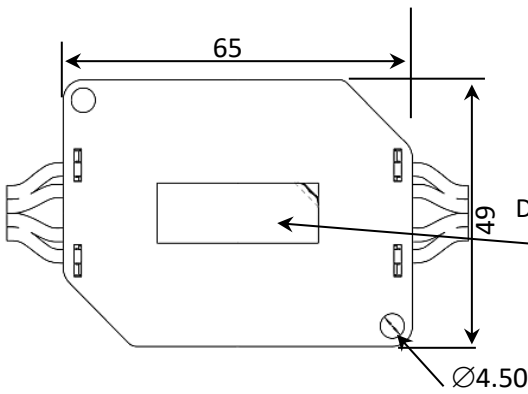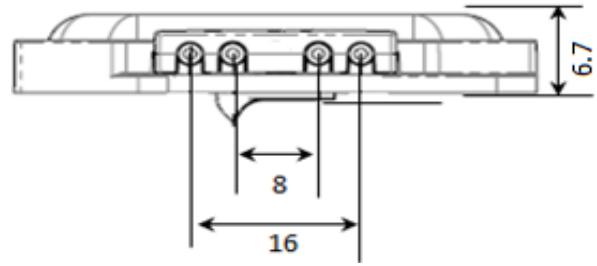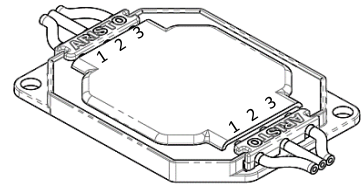Specification may be subject to change without announcement. Data is only for reference.

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Unit : mm

View : Top

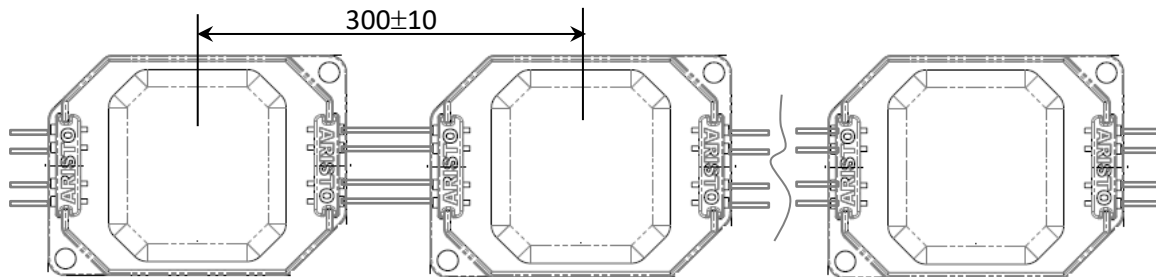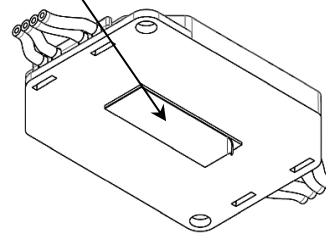View : Side

6.7

8

16

49

65

65

49

Double Sided Tape

Ø4.50

Non-IC type with 4 Wires:
1) White=DC24V
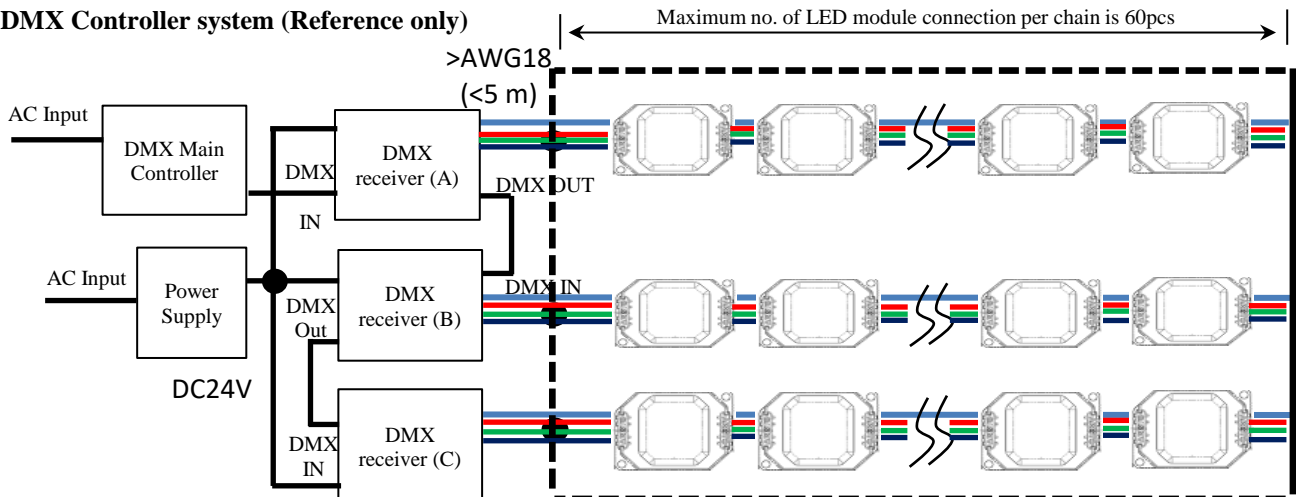2) Red=Red LED
3) Green=Green LED
4) Blue=Blue LED

IC type with 3 Wires:
1) Red=DC24V
2) Green=Data
3) White=GND

300±10

Power supply (Constant Voltage DC24V) and No. of LED module in one series connection

DMX Controller system (Reference only)

Maximum no. of LED module connection per chain is 60pcs

>AWG18
(<5 m)

AC Input

DMX Main Controller

DMX IN

DMX receiver (A)

DMX OUT

AC Input

Power Supply

DMX Out

DMX receiver (B)

DMX IN

DC24V

DMX IN

DMX receiver (C)

Note: "Loop back" wiring method is advisable for connecting more than 30pcs up to 60pcs, for brightness consistency.

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