

**SPECIFICATIONS**

**ELECTRICAL**

Current dissipation : 42 mA (white, and warm white)  
 30mA (red, green, and blue)  
 Power Consumption : 0.5 W (white, and warm white)  
 0.36 W (red, green, and blue)  
 Operating power : DC 12V  
 Maximum serial connection : 50 modules  
 Electronic dimming control supported

**THERMAL**

Cooling : Ambient air  
 Maximum operating temperature : 60°C (140°F)  
 Minimum operating temperature : -25°C (-13°F)  
 Maximum storage temperature : 60°C (140°F)  
 Minimum storage temperature : -30°C (-22°F)



**42,500H LIFETIME**

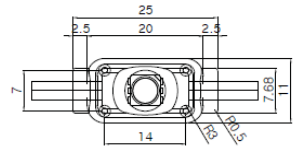
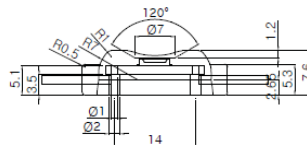
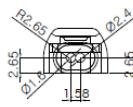
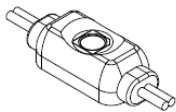
**WEATHER PROOF**

**CONSTANT CURRENT DRIVING SYSTEM**

**REVERSE VOLTAGE PROTECTION**

**DC12V**

**PHYSICAL**



**PRECAUTIONS**



**DC12V**

USE DC12V ONLY

**AC220V**

DO NOT USE AC INPUT



Do not cut or rejoin wires while product is connected with live power source



Avoid performing installation under rain or high humidity for outdoor use



Do not use the product under circumstances listed below  
 - High temperature spots over 60°C (140°F)  
 - Spots draw extreme moisture or dust  
 - Spots have corrosive gas or highly effected by electromagnetic field



Do not perform actions listed below  
 - Alter or modify  
 - Touch LED lamps with sharp objects  
 - Put glue or silicon over the LED lamps



Maximum driver quantity per serial connection is limited. Failure causes overload of current and damages to the product



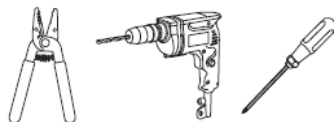
Refer to 'WIRE THICKNESS' table to use proper wire thickness between SMPS and the first LED module  
 Failure will cause dimmed output



Cable length between SMPS and the first LED module is limited. Refer to 'CONNECTION WITH POWER SUPPLY' on page 2

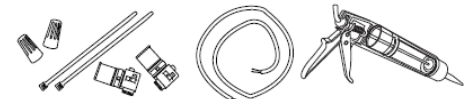
**PREPARATIONS**

**TOOLS REQUIRED**



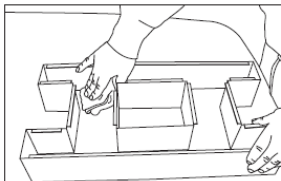
Wire Stripper, Drill, Screw Driver, Wiper

**SUPPLIES REQUIRED**

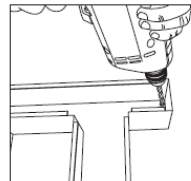


Wire Nuts, Cable Ties, IDC Connectors, VCTF(PLTC) Cable, (Optional : Silicon and Screws)

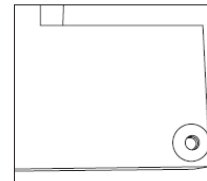
**PREPARE CHANNELS**



1. Clean moisture and dust inside



2. Make holes



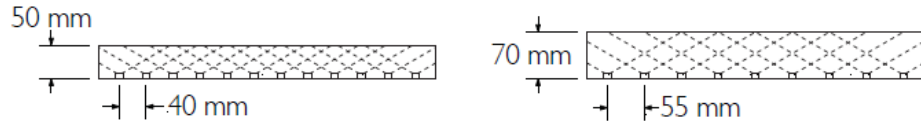
3. Use bushing to protect wires

1. Wipe out dust, water, and oil inside. 3M tape will come off easily if product is mounted on uncleaned surfaces.
  2. Make holes for wires from modules to SMPS.
  3. Without bushings, wires will easily be cut and short-circuit will occur.
- \*Use white paint inside the channels for better reflection

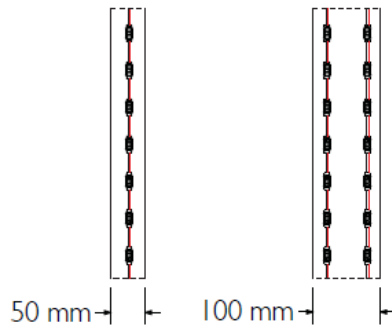
**LAYOUT DENSITY GUIDELINES**

Use recommended length for pitch between each module to achieve optimum lighting output while maintaining lowest unit cost. Failure or misplacing will cause dimmed spots or uneven appearance of light on the surface.

**RECOMMENDED PITCH PER DEPTH**

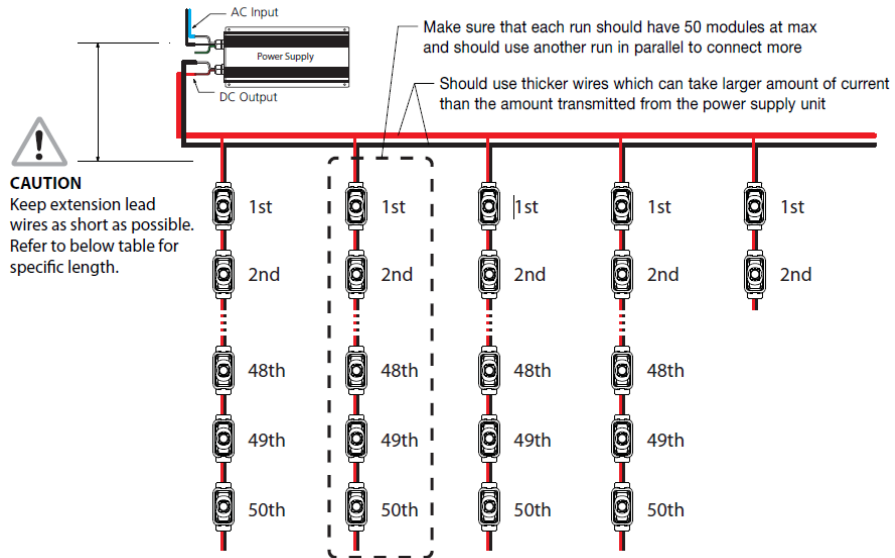


**RECOMMENDED LAYOUT DENSITY PER CHANNEL WIDTH**



**CONNECTION GUIDE**

Maximum driver quantity per serial connection is limited. Using more quantity per run will cause overload from SMPS which damages all connected products. This will cause voltage drop and also dimmed lighting output.



**CONNECTION WITH POWER SUPPLY**

**EXTENSION OF POWER SUPPLY LEAD WIRES**

Model Name	PSCS-0030-12	PSCS-0060-12	PSCS-0120-12	PSCS-0600-12**	PSCS-1000-12**
Output (W)	30W	60W	120W	600W	1000W
Output (A)	2.5A	5A	10A	50A	83A
Max Q'TY - White*	50pcs	100pcs	200pcs	1020pcs	1700pcs
Max Q'TY - Colors*	-	-	-	-	-
Recommended Extension Wire	VCTF1.25 AWG18	VCTF2.0 AWG14	VCTF2.0 AWG12	VCTF5.5 AWG4	VCTF8.0 AWG2
Maximum Length	5M (15FT)	5M (15FT)	5M (15FT)	15M (50FT)	15M (50FT)

\*Maximum quantity for S-LED is based on 85% of specified capacity of power supplies for extended lifespan

\*\*PSCS-0600-12, PSCS-1000-12 are not weather-proof

Equip with protective box for outdoor use and the box should have ventilating holes