

MANUAL

(LLC-0048-E□ & LLC-0050-E□ Series)



1. Converter specification

LLC-0048-E□ Series

- **INPUT:** 100~240Vac, 50/60Hz, 48W, Max 0.5A, PF=0.95
- **INPUT Connection:** Live "Red", Neutral "Black or White", Ground "Green&Yellow"
- **OUTPUT VOLTAGE:** 48Vdc Typ. ,
- **OUTPUT CURRENT:** 0.24A Typ.
- **Tc:** +70 °C, **Ta:** -10 °C ~ 40 °C
- **Size:** 24□*113*40

LLC-0050-E□ Series

- **INPUT:** 100~240Vac, 50/60Hz, 52W, Max 0.5A, PF=0.95
- **INPUT Connection:** Live "Red", Neutral "Black or White", Ground "Green&Yellow"
- **OUTPUT VOLTAGE:** 48Vdc Typ. ,
- **OUTPUT CURRENT:** 0.24A Typ.
- **Tc:** +70 °C, **Ta:** -10 °C ~ 40 °C
- **Size:** 24□*113*40

2. Connection



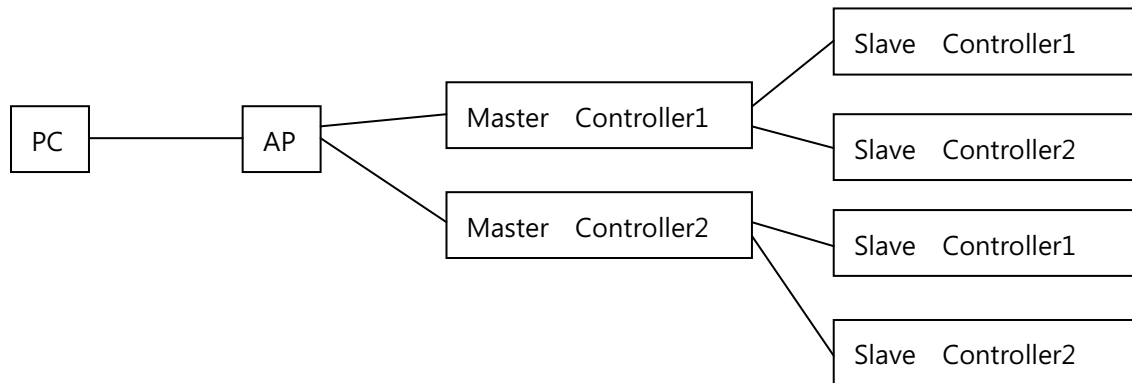
- Use this LED power with LASERLIGHTING LED Module only.
- Risk of Electric shock. Dry location use only.
- Only use LLI-060650-E□□ or LLI-120350-E□□ LED PKG

3. CAUTION (or IMPORTANT SAFETY NOTICE)

- ⚠ To prevent accidents such as an electric shock, cut the power supply before installation of the product.
- ⚠ Installation must be performed by an experienced technician. After installation, never disassemble and alteration of the circuits and the power.
- ⚠ Please comply with the following instructions when you connect the product to the power:
 - Do not allow to exceed the capacity of the panel-board.
 - Do not connect the power directly to the product.
- ⚠ The accidents due to disassembling, unsealing, and remodeling of the product without permission may not be asked for recompense.
- ⚠ Do not give excessive shock to the product. This may cause of a damage of the product or accidents.
- ⚠ To prevent accidents, a ground wire of the product must be grounded.
- ⚠ Please use the product only for proper purpose.
- ⚠ Do not cover the product with insulators.
- ⚠ Do not turn on the product while it is wrapped with papers or fabrics or close to flammable materials. Do not paint the product and turn on as well.
- ⚠ Never touch the product while it is turning on or right after turning off to prevent injuring yourself.
- ⚠ Do not use the product in the place where shock can be given.
- ⚠ Please use the product under the proper power supply voltage and the proper temperature.

Lighting Controller

● Connection



1. Setting up the PC

- 1) WIFI OFF
- 2) Connect the "UTP 1 to 1 Cable" between PC and AP
- 3) Set up an IP address at the LAN port of PC.
IP: 192.168.0.2 , Subnet : 255.255.255.0 Gateway : 192.168.0.1
DNS Server : 192.168.0.1
- 4) Ping Test: Start-Run-> Check the connection with AP after entering the "cmd" on the command windows and instructing the "ping 192.168.0.101".
 - Use the IP address on the AP label because the "192.168.101" for AP address is assigned differently for each AP.

2. Setting up the AP(Transport AP setting program when needed.)

Check the green light when connect with LAN port after plugged in the power.

3. Setting up the Master Controller

Dip Switch items

- 1) The five Slaves
- 2) The eight Dip Switches are all master combination, and Dip switches turn to slave mode if all switches were turned off.
- 3) Number 0x01 can be applied, if Master 1 turn on.

4. Composition of Address for Each Devices

AP can be allotted 254 for one Lan port of PC.

(Connect "PC LAN port x 254"

AP can be connected with 32 Master Controllers.

Master Controller can be connected with 32 Slave controller again.

- Dip switch 1 to 8 addresses can not be overlapped with Master Controller in one AP.
- Dip Switch 1 to 8 addresses can not be overlapped with each Slave Controller that interlocked one Master Controller
- Dip Switch for Master to Slave can be used without overlapping.
- Dip Switch 1 to 8 addresses are set up "0" channel when turn those all off.
(Dip Switch 8 7 6 5 4 3 2 1 / 1 is On, Off is bit concept 2^x of 0)

Ex)

8	7	6	5	4	3	2	1
0	0	0	0	0	0	1	1

(From above, $2^0 + 2^1=3$, therefore address will be 3.)

5. The Connection between AP and Master Controller

(AP connect to Master Slave with Wirless.)

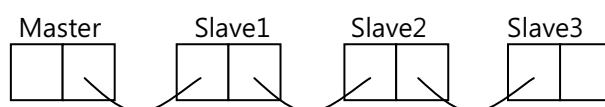
6. The Connection between Master Controller and Slave Controller

Master and Slave can be connected by UTP cable(1 to 1)

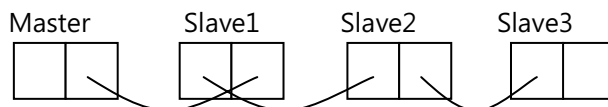
Any two ports of each controller can be used

It should not be connected by Loop. (The composition of return to Master Controller or disconnect from each Slave Controllers.)

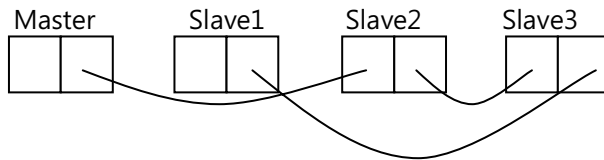
Ex1) OK



Ex2) OK



Ex3) OK



7. Communications overview

If PC command the "Dimming" to Number 0 Master controller through AP, every Slave Controller that connected to Number 0 Master Controller transports the equal Dimming value.

The Slave Controller sends information of state to Master Controller after working. The Master Controller gathers a status value of Slave Controllers and sends to PC through AP.

8. Add extension

The AP can be extended by using HUB or Wireless Router between PC and AP.

9. Program

The provided program does not provide a periodic or repetitive function, just controls on / off and dimming step.

FCC Information

This device complies with Part 15 of the FCC Results. Operation is subject to the following two conditions:

- (1) This Device may not cause harmful interface, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

"CAUTION: Exposure to Radio Frequency Radiation.

Antenna shall be mounted in such a manner to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limit."