SKYDANCE

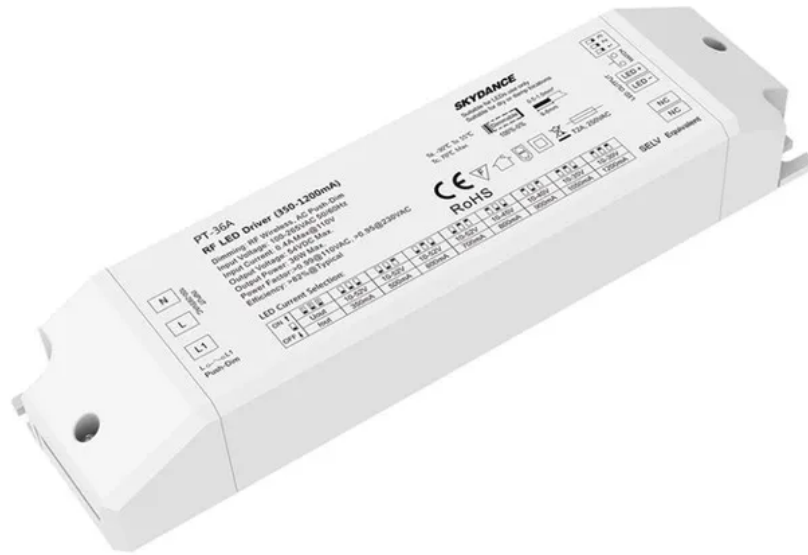**PT-40A-2 RF Constant Current LED CCT Driver**
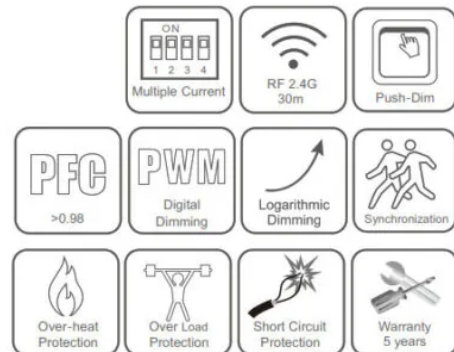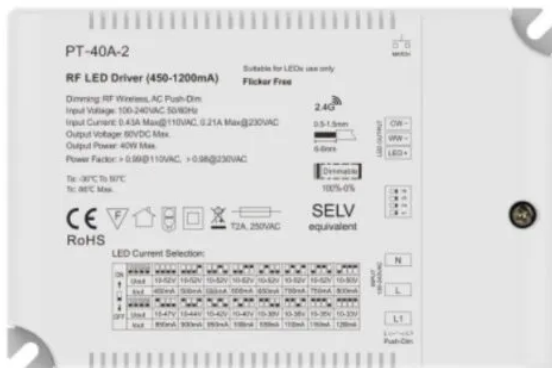
User Manual

RF Constant Current LED CCT Driver

Model No.: PT-40A-2

User Manual Ver 1.0.1
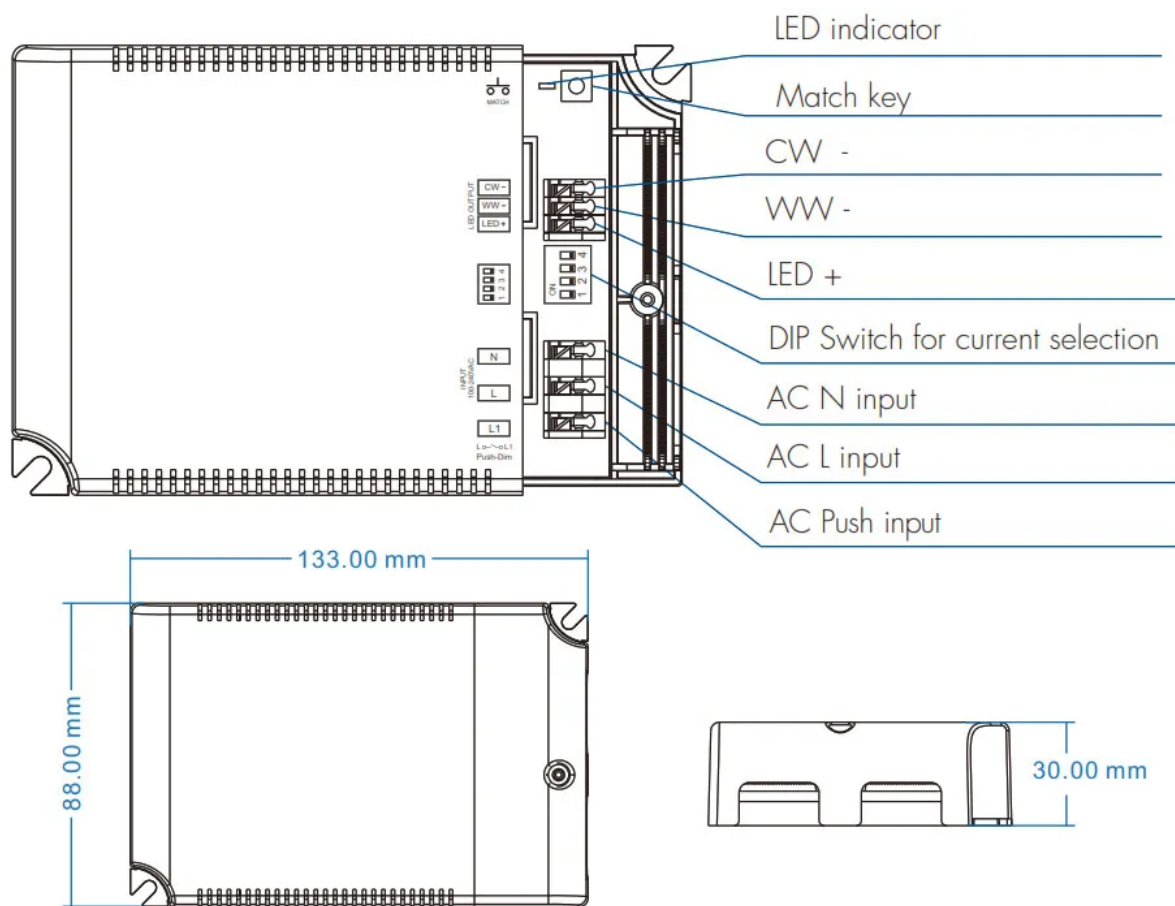

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Features

- Dimming interface: RF Wireless, AC Push-Dim
- Match with RF 2.4G single color remote control, one RF LED driver accepts up to 10 remote controls

- Universal AC input / Full range
- Flicker-free
- 2 channel constant current output, con
- Built-in active PFC function: 0.98 Typ
- Auto-transmitting function: LED driver automatically transmits a signal to another LED driver with a 30m control distance
- Synchronize on multiple LED drivers
- Fade in and out effect selectable
- 3 levels of color temperature (WW, NW, and CW) selectable by continuous power off and on during the operation
- Over-heat / Over-load / Short circuit protection, recover automatically
- Full protective plastic case
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

Mechanical Structures and Installations

Technical Parameters

Output	Output Voltage	10~52VDC
	Output Current	2x (450~1200) mA
	Output Power	Max. 40W
	Max Output Voltage	60VCC
	Dimming Range	0~100%

	PWM frequency	8000llz
	Current Accuracy	±5%
	Ripple&Noise	-c 150mV
Input	Input Voltage Range	100~240VAC
	Frequency Range	50/60Hz
	Efficiency	>85%
	Alternating Current	0.43A Max.
	Anti Surge	L-N: l .2KV
	Startup time	15/230VAC
	Power Factor	>0.99/110VAC, >098/230VAC
	THD	<6%
	Inrush Current	Cold start 18.8A at 230VAC
	Leakage Current	< 0.5mA/2301/AC
	No Load Power	< 16W
Protection	Over Load Power	When 0/P voltage exceeds its range, 0/P current declines, and auto recovers when the bad is reduced.
	Short Circuit	Shut down automatically if a short circuit occurs, and auto recovers.
	Over Temperature	Intelligently adjust or turn all the output current if the PCB temp > 100t, auto recovers
Environment	Waking Temperature	-30t~50t
	Tcase Max	86° C
	Working Humidity	20% ~90%RH, non-condensing
	Storage Temp/Humidity	.40°C~80t. 10%-95%RH
	Temperature Coefficient	±0.03%/t A50%1
	Vibration Resistance	10-500Hz, 2G, 6min/cycle, X.Y,Z axes/2min
	IP Rating	IP20

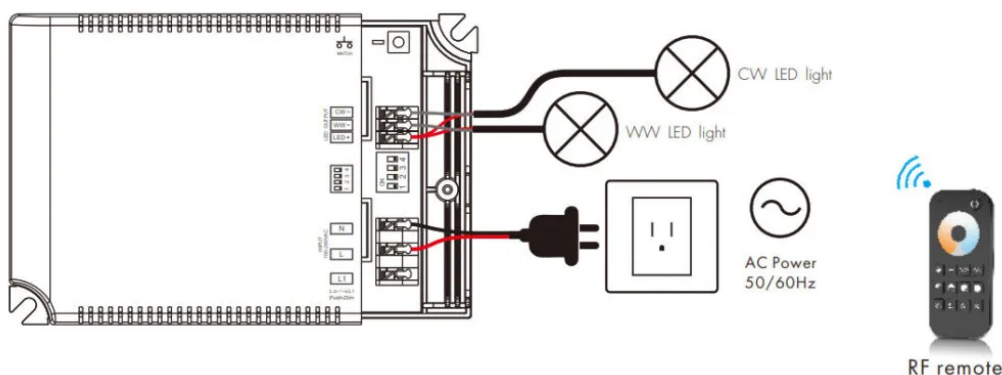|	Security Specifications	IEC/EN61347-1, IEC/EN613472-13
Sofety&EMC	Withstand Voltage	I/P-0/P: 3750VAC
	Insulation Resistance	I/P-0/P: IODM0/5COVDC/25.C/70%RH
	EMC Emission	EN55015. EN61000-3-2 Class C,1E051CCX3-3-3
	EMC Immunity	EN610004-2.3.4.5.6.8. II, EN6 1547
	Certifications	CE. EMC

LED Current Selection:

ON ↑ □ ↓ OFF	1 2 3 4							
Uout	10-52V	10-52V	10-52V	10-52V	10-52V	10-52V	10-52V	10-50V
Iout	450mA	500mA	550mA	600mA	650mA	700mA	750mA	800mA
1 2 3 4								
Uout	10-47V	10-44V	10-42V	10-40V	10-38V	10-36V	10-35V	10-33V
Iout	850mA	900mA	950mA	1000mA	1050mA	1100mA	1150mA	1200mA

Applications

- Suitable for downlight, spotlight, and decorative applications.
- Warehouse, Health care, Retail, and Display.
- Use for retro

Wiring Diagram

1. RF Connection

Note: Continuously switch off and on the power supply two times rapidly, It will change 3 levels of color temperature (WW, NW, and CW) in sequence.

Match Remote Control (two-match ways)

End-user can choose the suitable match/delete ways. Two options are offered for selection:

Use Match key	Use Power Restart
Match: Short press the match key, and immediately press the on/off key (single-zone emote) or zone key (multiple zones remote) of the remote. **Delete:** Press and old match key for 5s to delete all matches, The light blinks 5 times means all matched remotes were deleted.	**Match:** Switch off the power, then switch on the power, and repeat again. Imm press the on/off key (single-zone remote) or zone key (multiple zones re es on the remote. The light blinks 3 times means the match is successfu **Delete:** Switch off the power, then switch on the power, and repeat again. Imm t dress on/off key (single-zone remote) or zone key (multiple zones rem n the remote. The light blinks 5 times means all matched remotes were

When using multiple RF drivers, two application methods:
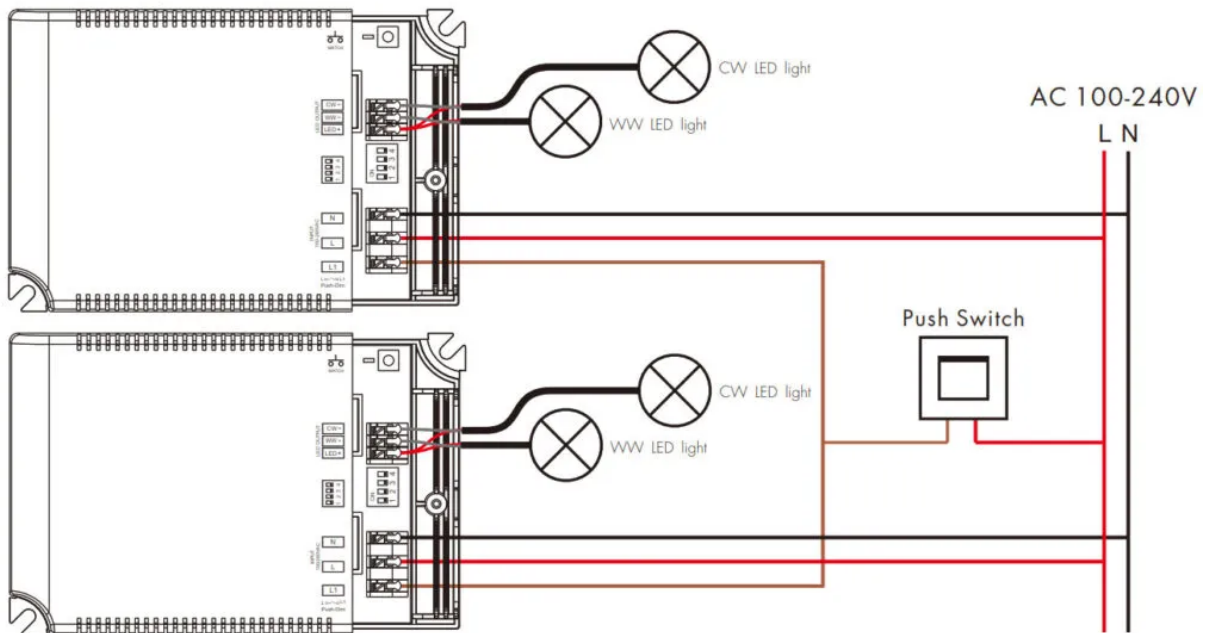
1. All the drivers are in the same zone.

   Auto-transmitting: One driver can transmit the signals from the remote to another driver within 30m,

   as long as there is a driver within 30m, the remote control distance can be extended.

   Auto-synchronization: Multiple drivers within a 30m distance can work synchronously when they are controlled by the same remote. Driver placement may offer up to 0m communication distance. Metals and other metal materials will reduce the range. Strong signal sources such as WiFi routers and microwave ovens will affect the range. We recommend for indoor applications that driver placements should be no further apart than15m.

2. Each driver(one or more) is in a different zone, like zone 1, 2, 3, or 4.
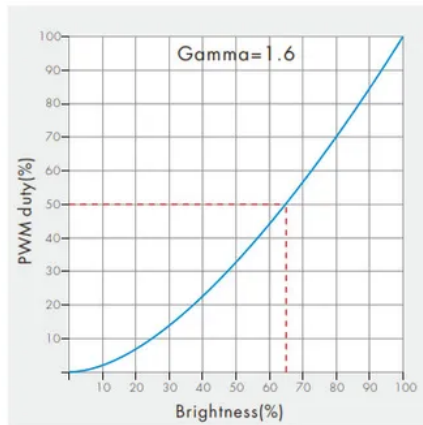
2. AC Push-Dim connection

The provided AC Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches.

- **Short press:** Turn on or off the light.
- **Long press (1-6s):** Press and hold to step-less dimming, With every other long press, the light level goes in the opposite direction.
- **Dimming memory:** Light returns to the previous dimming level when switched off and on again, even at power failure.
- **Synchronization:** If more than one LED driver is connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the roup dim up to 100%. This means there is no need for any additional synchrony wire in

larger installations. We recommend the number of LED drivers connected to a push witch does not exceed 25 pieces, The maximum length of the wires from the push to the LED driver should be no more than 50 meters.

Dimming Curve

Fade in and Fade out Setting

Long press match key 5s, then short press match key 3 times, The lighting effect will be set to the fade in and fade out in 3s, and the indicator light of the LED controller blinks 3 times.

Long press match key 10s, restore factory default parameter, and the light on/off time restores to 0.5s.