

Phase Cut Load Compensator

TD-SCR uses the digital control technology to solve the flickering or non-shutdown problems of LED lamps during leading edge and trailing edge dimming. LED lamps are capacitive loads and often cause problems at the lowest dimming level due to insufficient holding current, leading to impulse-type flickering or failure to turn off LED lamps. TD-SCR ensures stable performance of LED lamps by maintaining the minimum output current when the conduction angle is smallest. It is ideal for load compensation in phase cut circuits.

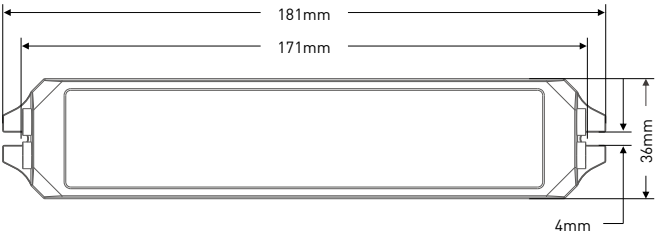


Technical Specs

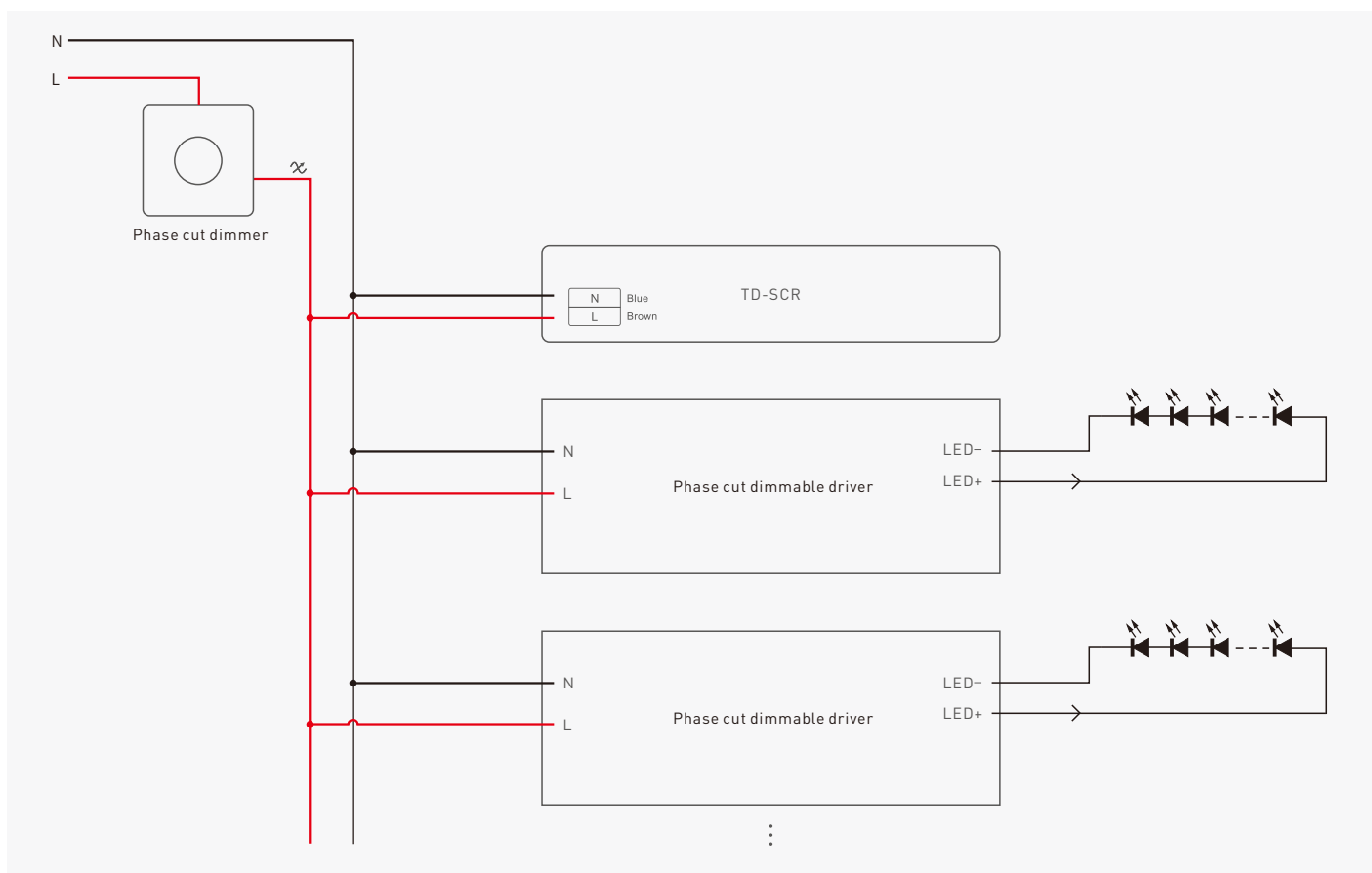
Model		TD-SCR
INPUT	Input Voltage	100-240Vac
	Frequency	50/60Hz
	Input Current	70mA@115Vac / 50mA@230Vac
	Power Transmission	5.5W@115Vac / 3.8W@230Vac
	Inrush Current	Cold start 10A/230Vac (Test twidth = 320us under 50% Ipeak)
ENVIRONMENT	Working Temperature	ta: -30 ~ 55°C tc: 90°C
	Working Humidity	20 ~ 95%RH, non-condensing
	Storage Temperature, Humidity	-40 ~ 80°C, 10~95%RH
	Temperature Coefficient	±0.03%/°C(-20~45°C)
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively
OTHERS	Dimensions	181×36×28mm(L×W×H)
	Gross Weight(G.W)	185g±10g
	Warranty	5 years

Product Size

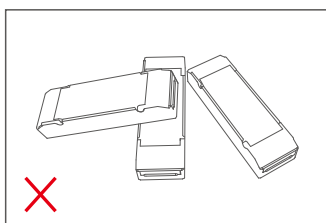
Unit: mm



Connection Application Diagram

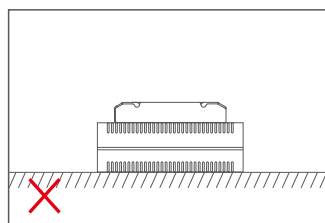
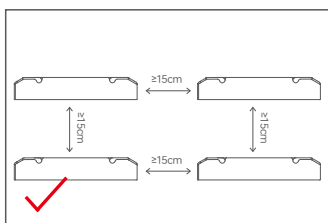


Installation Precautions

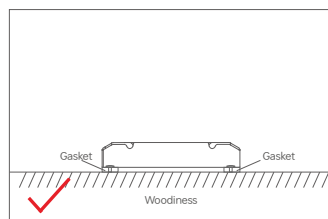
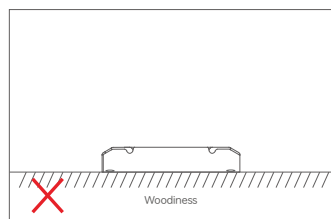
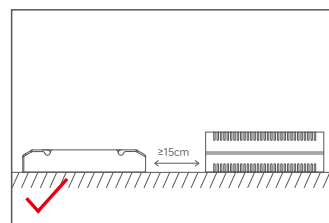


Please do not stack the products. The distance between two products should be $\geq 15\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.

Note: The installation should be in line with the environmental operating temperature of the product. Do not install it inside the lamp to avoid exceeding the environmental operating temperature of the product, which may affect the product's lifespan.



Please not place the products on LED drivers. The distance between the product and the driver should be $\geq 15\text{cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.



Do not fix the product screws tightly against the wooden board. Instead, add a washer with a thickness of $\geq 7\text{mm}$ under the fixing screws. Leaving some gaps can effectively dissipate heat, preventing any impact on the product's heat dissipation performance and service life.

Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

Attentions

- Product installation and commissioning should be done by a qualified professional.
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will prolong the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

- Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

Update Log

Version	Updated Time	Update Content	Updated by
A0	2023.03.10	Original version	Liu Weili
A1	2025.11.01	Replace the logo;Update the laser engraving;Update the company address	Haipeng Li