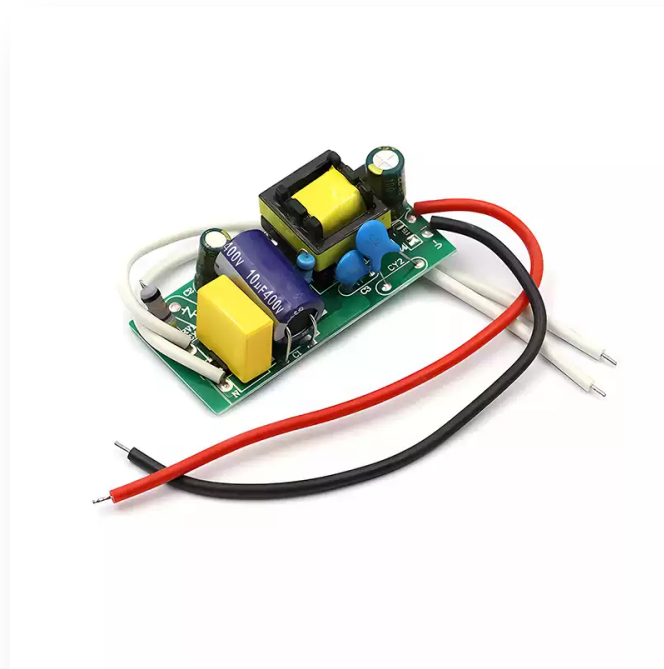


8-12 W Isolated Constant-Current LED Driver

Universal-input driver for 8-15 series 1 W LED emitters



Product Overview

A compact power-electronics module documented from the supplied archived product page. The specifications below separate confirmed ratings from operating guidance and identify the exact module variant where the source page contains multiple options.

Electrical and Mechanical Specifications

Parameter	Value
Driver type	Isolated constant-current LED supply
Input voltage	85-265 VAC
Rated LED configuration	8-12 x 1 W; source states compatibility with 8-15 suitable 1 W emitters
Loaded output voltage	21-54 VDC
No-load output voltage	Approximately 55 VDC
Output current	280-300 mA
Protection	Over-current, short-circuit and open-circuit protection
Estimated failure rate	Approximately 0.04% stated by source
Dimensions	Approximately 45 x 20 x 19 mm

Key Features

- Universal 85-265 VAC input
- Isolated constant-current output
- Automatic LED-string voltage adaptation
- Open/short/over-current protection

Operating Notes

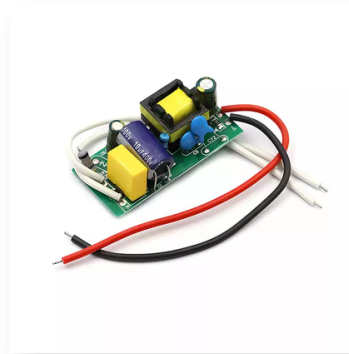
- DANGER: mains voltage is present; use an insulated enclosure and qualified wiring practices.
- White wires are AC input; red is LED positive and black is LED negative.
- Use only LED strings whose forward-voltage range is compatible with 21-54 V.

Application and Connection Guide

APPLICATION & CONNECTION

AC MAINS INPUT

85-265 VAC



SERIES LED STRING

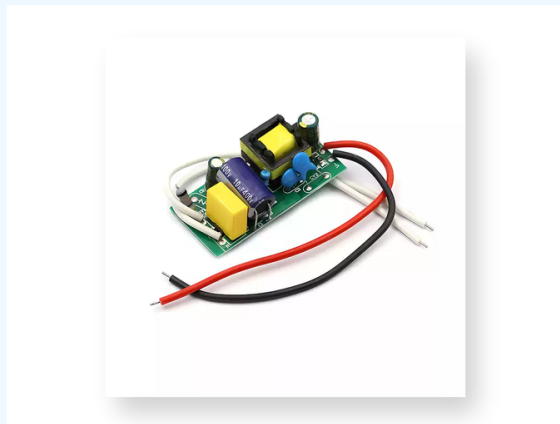
280-300 mA

Verify polarity and configure voltage/current before connecting the load.

Connection Sequence

1. Confirm the input source is within the stated range. 2. Verify input and output polarity. 3. Configure voltage and current limits with the load disconnected. 4. Connect the load or battery. 5. Monitor temperature during initial operation.

KEY PRODUCT ADVANTAGES



- 1 **Universal 85-265 VAC input**
- 2 **Isolated constant-current output**
- 3 **Automatic LED-string voltage adaptation**
- 4 **Open/short/over-current protection**