

15W Flyback Regulator with Digital Isolator and Integrated Feedback

EVAL Kit Physical Contents

Item #	Description	Quantity
1	KTB1100 EVAL fully assembled PCB	1
2	Anti-static bag	1
3	Quick Start Guide, printed 1 page (A4 or US Letter)	1
4	EVAL Kit box	1

QR Links for Documents

IC Landing Page	EVAL Kit Landing Page
 https://www.kinet-ic.com/ktb1100/	 https://www.kinet-ic.com/ktb1100eyaa-mmev01/

Note: The full EVAL Kit Manual is available for download on the EVAL Kit Landing Page.

User-Supplied Equipment

1 Required Equipment

1. Bench Power Supply for VIN – 7V to 75V and 0.5A/1A/2A, as needed for the intended application. For testing over-voltage protection and withstand voltage, a 75V adjustable bench power supply is preferred.
2. Digital Multimeter – one or more, used to measure input/output voltages and currents.

Quick Start Procedures

1. Before connecting the EVAL Kit to the VIN bench supply, turn on the supply and adjust the voltage as close to 0V as possible. Then turn off the supply. While off, connect power cables to the VIN+ (TP1 Power) and VIN- (TP2 GND) on the EVAL kit and to VIN+ and VIN- on the bench supply.
2. Turn on the VIN bench supply and very slowly ramp its voltage to an appropriate voltage, such as 24, 36, 48, or 60V. While ramping VIN slowly, use the bench supply’s output current indication (or a digital multimeter) to monitor the VIN current. If the current becomes high, reduce the VIN voltage quickly to prevent damage. Then inspect the setup for any wiring errors.
3. With valid VIN voltage, use a digital multimeter to check the output voltage between the Vo+ and V0- (GND) terminals on the EVAL Kit. It should be 12V.
4. ON/OFF is connected to Vin by default (adjustable UVLO R12 and R15) to enable the output. Connect ON/OFF to VIN- (GND) to disable.