



OMEGA TYPE PET-460 is a compact and user friendly learning platform which is very useful for students to understand the concept of PWM generation technique, and Flyback Converter Configuration on various load configurations. It is also helpful for understanding the converter output on various filter configurations. Platform explains PWM generation technique, Flyback Converter Configuration, and power isolation circuit to measure the isolated output.

**OBJECTS:**

- 01 To study PWM generation
- 02 To study Flyback Converter with different filter components and loads

**FEATURES**

- 01 Easy to operate & understand
- 02 Optically isolated PWM generation with Gate driver
- 03 Inbuilt isolation section for measurement of the signal
- 04 Space provided for external inductor connection
- 05 Test Points provided at output of each section to measure the signals

**TECHNICAL SPECIFICATIONS:**

- 01 Input DC Voltage : 12V at 1.5Amp (internal)
- 02 PWM Frequency Variation : 5KHz to 22KHz
- 03 Duty Cycle Variation : 7% to 45%
- 04 Load Assembly : RL1 & RI2 (75Ω & 75Ω)
- 05 Power Isolation Section : Single channel
- 06 Power device : MOSFET IRF-540
- 07 MOSFET/IGBT Driver : YES
- 08 Inductors : L1 (3.4uH), L2 (3.8uH), L3(optional)
- 09 Capacitors : C1 (1000uF/63V), C2 (470uF/63V), C3 (220uF/63V)
- 10 Test Points : 16 nos.
- 11 Power Supply : 230VAC 50/60Hz
- 12 Weight : 3.600 Kg approx.
- 13 Dimensions (mm) : W340 x H125 x D210

**LIST OF ACCESSORIES:**

- 01 Patch cord 2mm length 50cm Red.....05
- 02 Patch cord 2mm Red length 50cm Black.....05
- 03 BNC to BNC Cable.....01
- 04 BNC with 2mm Banana Pin Red & Black.....01

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

**OMEGA ELECTRONICS**