

ENERGISER /ZATAKA MACHINE KIT ALL IN ONE

(4.5 joules/7 joules and 9 joules @12 kv)

About the Company

Embed Innovations was started in the year 2000.we are a company into Product design and manufacturing. We work on contract , technology transfer or we design and manufacture customized products in software and hardware. we are located at

EMBED INNOVATIONS,

#450,4th floor,

A. k. A complex,

Next to madhavan park petrol bunk,

Jayanagar 2nd block,

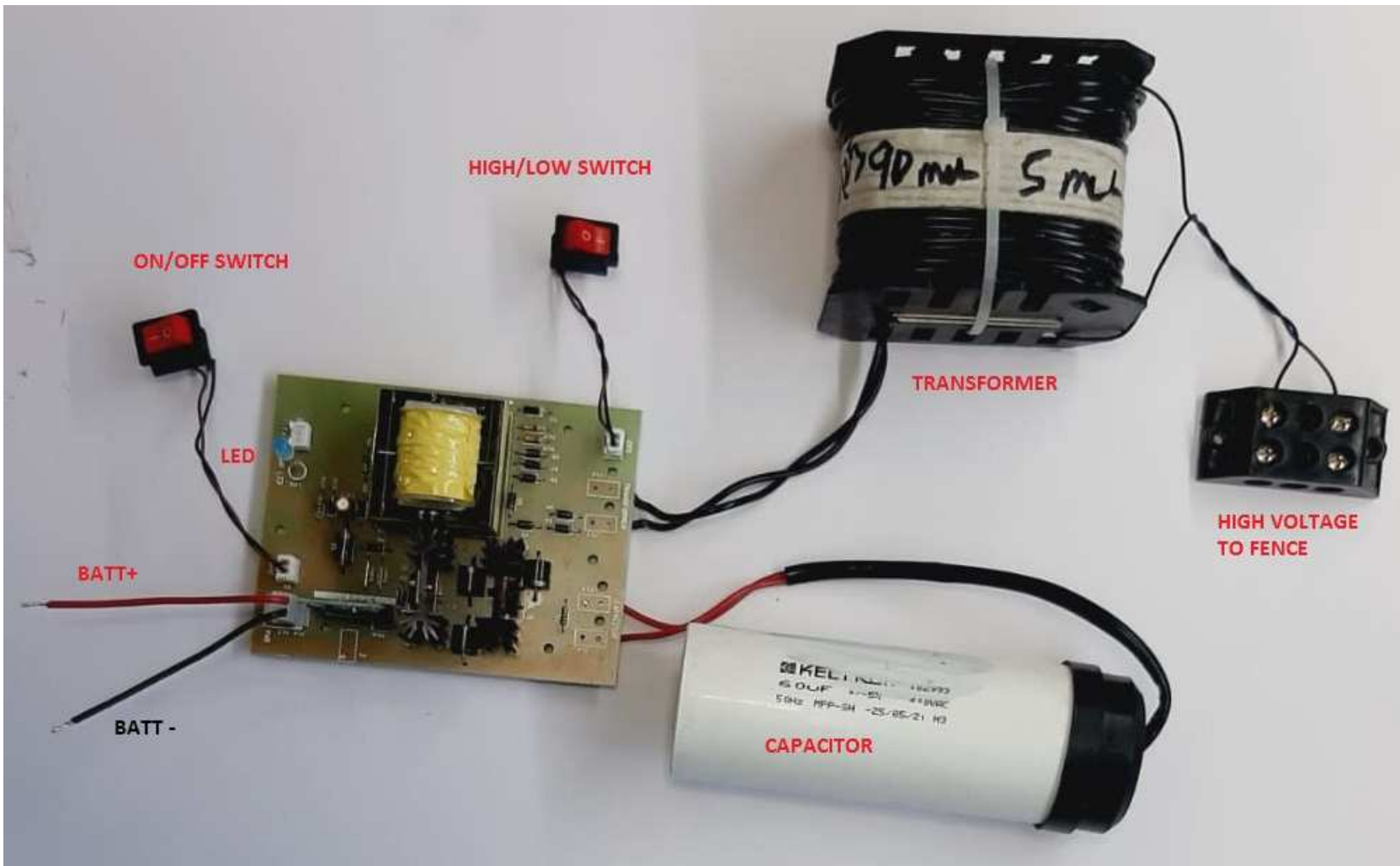
BANGALORE-560011

India

Mobile:+919845296225

GST#29AJCPM1064H1ZA

WIRING DIAGRAM



CONTENTS

1) MAIN BOARD

2) PROCESSOR BOARD

3) PULSE TRANSFORMER

4) CAPACITOR

5) HIGH VOLTAGE TRANSFORMER

6) COSTING

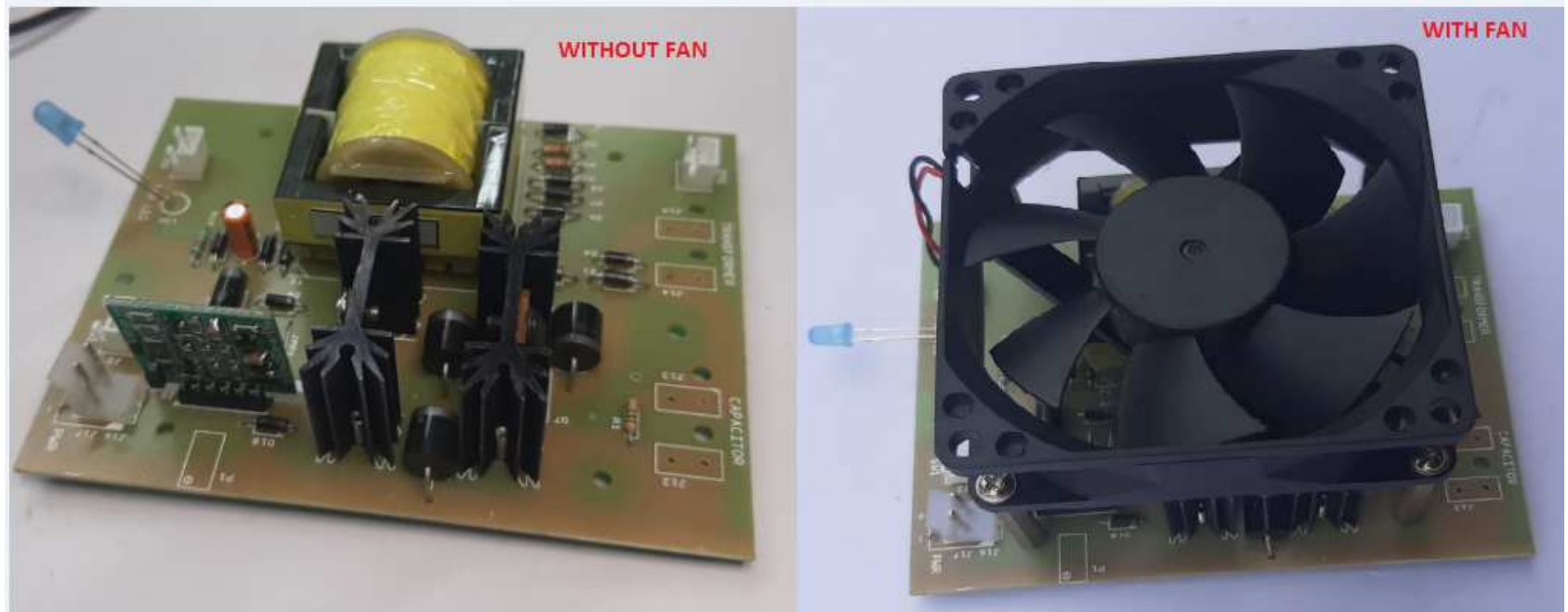
7) OTHER FEATURES

8) TEST WAVEFORMS

9) VIDEO LINKS YOUTUBE

MAIN BOARD FEATURES

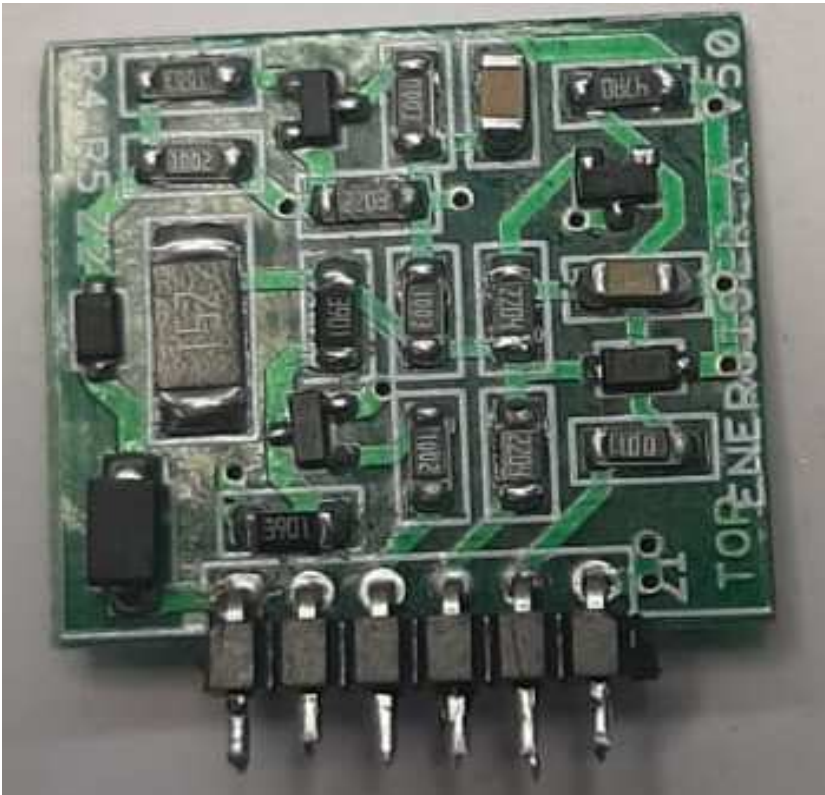
IMAGE



- ✚ HAS INBUILT HEAT SINK FOR MOSFET AND SCR
- ✚ HAS INBUILT OUTPUT VOLTAGE REGULATOR FOR CONSTANT HIGH VOLTGE OUTPUT
- ✚ CONNECTORS FOR EASY ASSEMBLY AND REPLACEMENT
- ✚ HAS INBUILT DOUBLE SIDE PROCESSOR PCB BOARD WITH NOICE REDUCTION
- ✚ HAS INBUILT FAN FOR SAFETY WORKING FOR THE MOSFET ,DIODE AND SCR
- ✚ HAS INBUILT REVERSE VOLTAGE BLOCK DIODE FOR HIGH VOLTAGE TRANSFORMER 3000 VOLTS/30AMPS
- ✚ HAS INBUILT REVERSE BATTERY PROTECTION
- ✚ 46 TO 50 PULSES PER MINUTE
- ✚ [eligible for government approval and certification]

PROCESSOR BOARD

IMAGE



- ✚ DOUBLE SIDE BOARD WITH FULL GROUND FOR NOICE SUPPRESSION
- ✚ HAS INBUILT PROGRAMMED OSCILLATOR TO MAINTAIN EQUEL OUTPUT PULSES
- ✚ HAS INBUILT 10 VOLTS ZENER DIODE VOLTAGE REGULATION TO DRIVE MOSFET AT 10 VOLTS

PULSE TRANSFORMER

IMAGE



- ✚ ALL THE TRANSFORMER ARE TUNED TO 84MH SO THAT THE OUTPUT VOLTAGE DOES NOT VARY
- ✚ PRIMARY AND SECONDARY WINDING USED COPPER WIRE WHICH HAS 220 DEGREE INSULATION
- ✚ 4KVOLTS HIGH INSULATION USED BETWEEN SECONDARY AND PRIMARY
- ✚ GOOD MAGNETCS CORE

CAPACITOR

IMAGE



- ✚ CAPACITOR WORKING TEMPERATURE 30 DEGREES TO 85 DEGREES
- ✚ HAS HIGH LEVEL OF EPOXY
- ✚ WORKING VOLTAGE IS 440VAC (DC UPTO 800 VOLTS)
- ✚ KELTRON CAPACITORS ARE MANUFACTURED UNDER STRICT QUALITY CONTROL

HIGH VOLTAGE TRANSFORMER

IMAGE



- ✚ HIGH VOLTAGE TRANSFORMER IS A NEW TECHNOLOGY
- ✚ PRIMARY WIRE IS 7/38 PVC WIRE WOUND BY HAND /MACHINE 90 METERS.NO NEED OF VARNISH OR POTTING
- ✚ SECONDARY WINDING USES 1.5 SQ MM FENOLEX WIRE 5 METERS WOUND BY HAND
- ✚ THERE IS NO EI STAMPING.ACTUALLY EI STAMPING CAUSES HEAT.SO ITS DESIGN WITHOUT EI CORE.JUST FLAT CORE
- ✚ TO GET BETTER QUALITY WE CAN USE EVEN THE TEFLON WIRE USED IN MOTOR REWINDING.
- ✚ **EVEN IF THE TRANSFORMER OUTPUT IS DEAD SHORT ,THE TRANSFORMER WILL NOT BURNOUT/PUNCHURE**
- ✚ TO WIND THIS TRANSFORMER WE DON'T NEED ANY SKILL.

COSTING

✚ MAIN BOARD WITH FAN-----	1,800/-
✚ TRANSFORMER -----	900/-
✚ CAPACITOR 60MFD /440VAC -----	300/-

TOTAL 3000/- +TAXES 18%+ COURIER CHARGES EXTRA

NOTE:

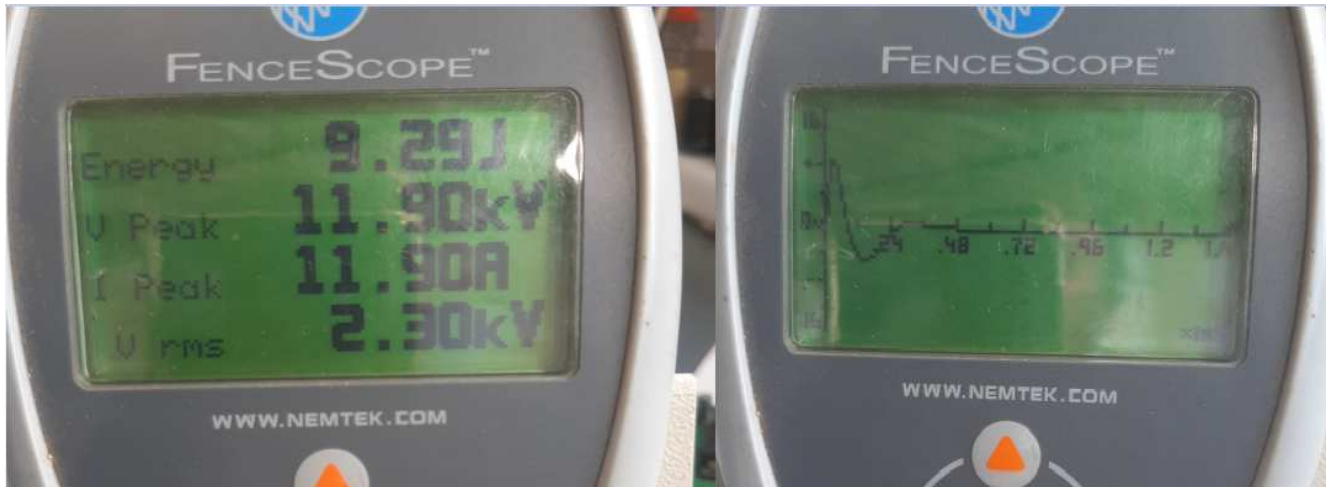
- ✚ capacitor you can buy locally
- ✚ transformer u can buy 1 piece and copy and make your own
- ✚ no MOQ(minimum order quantity)
- ✚ 1 year warranty
- ✚ no warranty for burnouts

OTHER FEATURES

- ⚡ 9 JOULES 12 KV [**eligible for government approval and certification**]
- ⚡ HIGH TEMPERATURE (220 DEG) COPPER WIRE PULSE TRANSFORMER
- ⚡ SHORT CIRCUIT PROTECTION
- ⚡ EI CORELESS HIGH VOLTAGE TRANSFORMER.**JUST FLAT CORE**
- ⚡ 7/38 PRIMARY WINDING .90 METERS.HIGH PVC INSULATION
- ⚡ 1.5SQMM SECONDARY (FENOLOX) 5 METERS.HIGH PVC INSULATION
- ⚡ PULSE DRIVER USING RC OSCILLATOR CHIP(SMD).
- ⚡ 46 TO 50 PULSES PER MINUTE
- ⚡ NO NEED OF POTTING FOR TRANSFORMER
- ⚡ 60MFD CAPACITOR /450VAC---9 JOULES/12KV (12 VOLTS @1500MA)
40MFD CAPACITOR/450VAC ---7 JOULES/11.5KV (12 VOLTS @ 1300MA)
30MFD CAPACITOR /450VAC---4.5 JOULES/11KV (12 VOLTS @ 1000MA)
20MFD CAPACITOR /450VAC---3.5 JOULES/11KV (12 VOLTS @ 500MA)
- ⚡ 1 YEAR WARRENTY
- ⚡ 5 YEARS FIELD PROVEN CIRCUIT AND GOOD QUALITY COMPONENTS
- ⚡ WORKS ON BATTERY OR AC 12 VOLTS /2A ADAPTER
- ⚡ WAVE FORMS SHOWN ARE FIELD PROVEN
- ⚡ ENCLOSURE U CAN BUY FORM
<https://www.reicabinets.com/product?cid=17&pid=275&prodn=ELECTRIC%20FENCING%20-%2002>

TEST WAVE FORMS

WITH OUT FENCE READING AND WAVE FORMS



WITH FENCE READING AND WAVE FORMS



VIDEO LINKS IN YOUTUBE

TRANSFORMER WINDING

<https://youtube.com/shorts/8U7rfscRxz8?feature=share>

TRANSFORMER FEATURES

<https://youtube.com/shorts/cllGrB6FQXw>

BOARD EXPLANATION

https://youtu.be/APFXO51_Q3E