

# EXPERTS IN TRANSFORMERS

[www.pomceg.com](http://www.pomceg.com)

## OUR PRODUCTS

### TRANSFORMERS

- LOW FREQUENCY
  - Low profile
  - Varnished
  - Encapsulated/Potted
- HIGH FREQUENCY
  - Power Transformer - Telecom
  - Audio
  - Isolation
  - Pulses

### INDUCTORS

- AIR CORES
- FERRITE CORES
- AC LINE FILTERS
- THD POWER INDUCTORS
- SMD POWER INDUCTORS
- CHOKES:
  - Toroidal format
  - Any other formats

### IGNITORS

### CURRENT SENSORS

### SPECIAL DESIGNS

## GEOGRAPHIC EXPANSION



**"ON TIME ANYWHERE"**



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## CERTIFICATIONS



Auditados por:

**MOORE STEPHENS**  
IBERGRUP



# TRANSFORMERS FOR POWER APPLICATIONS







- ✓ MADE IN EUROPE
- ✓ UL CERTIFIED MATERIALS
- ✓ CUSTOMIZED DESIGNS
- ✓ AUTOMATED PRODUCTION

### DELIVERY TIMES

SCHEDULED PRODUCTION  
**45 DAYS**

Traceability



Flexibility



Custom design



Personalized attention



Security stock



# TRANSFORMERS FOR POWER APPLICATIONS

### COMPETITIVE SKILLS

- ✓ Possibility of making custom ferrite cores
- ✓ 3D printing of bobbins for prototypes (both in filament and in resin)
- ✓ Encapsulation of transformers with resins to facilitate thermal transmission and dissipation
- ✓ Insulation voltages higher than 5Kv



	U80	U93/76/16	U100	E70	E80	E100
<b>PUSH-PULL</b>	17500	11400	14500	8700	7200	18000
<b>FORDWARD</b>	1240	8000	10300	6100	5100	12700
<b>PUSH-PULL</b>	24300	15700	20100	12000	10000	24900
<b>FORDWARD</b>	17200	111000	14200	8500	7100	17600

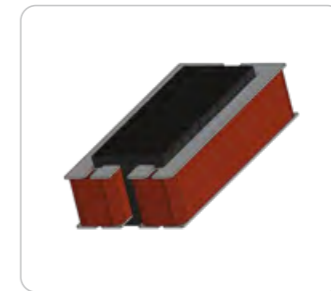
Note: table of maximum powers depending on the configuration of the converter and the chosen core.

	7.5kW	12kW	20kW
<b>Switching frequency 50kHz</b>			
<b>PUSH-PULL</b>	E70, UI93	E100, U80, U93	U93, U126
<b>FORDWARD</b>	U93-16	E100, U80	
<b>Switching frequency 100kHz</b>			
<b>PUSH-PULL</b>	E65, U46	E70, UI93	E100, U80
<b>FORDWARD</b>	E70, UI93	E100, U93-30, UI93	U93-30, U126

Table of formats according to the chosen configuration, the necessary power and the switching frequency.

### CORES IN STACK POSITION (FORMAT E)

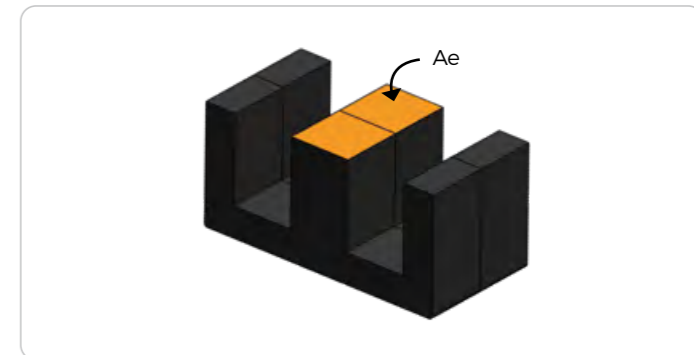
- ✓ In all configurations it is possible to use this solution to increase the power of the system (increasing the cross section)
- ✓ Increase heat dissipation
- ✓ Increase the main inductance to avoid core saturation



### CONDUCTORS ACCORDING TO THE CUSTOMER NEEDS

We have the means and the experience to be able to wind any type of conductor that is necessary to obtain the best possible performance from the component.

- ✓ Square section wire (flat copper)
- ✓ Round or rectangular litz wire:
  - Uncoated
  - With nylon, polyester, silk coating ...
  - Taping with different materials to increase electrical insulation (PET, PEN, PI ...)



### KEYS TO TECHNOLOGICAL DEVELOPMENT

In recent years we are experiencing a change in social mentality with a very successful approach towards sustainable and emission-free communities; directing the generation of energy, and consequently all the forms of transformation of the same, towards renewable energies.

In this transition, the magnetic components that POMCEG ELECTRONICS manufactures are of vital importance since they

are the elements in which the greatest efforts are deposited to achieve the highest efficiency.

In this way the optimization of high frequency transformers for power applications with a controlled and quality production, are becoming a key aspect for the design of efficient converters and chargers, which allow a reliable ecological transition.

### FIELDS OF APPLICATION

Thanks to the extensive experience of POMCEG ELECTRONICS and its way of working, the lines of action are very diverse, highlighting the following sectors as strategic areas.



### TECHNICAL CAPABILITIES

- WE DESIGN AND MANUFACTURE TRANSFORMERS WITH MULTIPLE INPUTS AND / OR OUTPUTS
- MATERIALS UL94 V-0
- DIFFERENT FASTENING FORMATS
- SPECIAL CERTIFICATIONS AVAILABLE