



# PRODUCT PORTFOLIO

for

LIGHT ELECTRIC VEHICLES

***GUILERA***<sup>®</sup>

the engineering and manufacturing partner  
of the leading brands of light electric vehicles in Europe,

presents its product line-up of

**INVERTERS**

for light e-Mobility applications

# APPLICATIONS



e-Bikes

e-MTBs

e-P3Ws

e-Mopeds

e-ATV / UGV / AGV

e-Scooters

e-Trial Bikes

Personal Light Electric Vehicles PLEVs



## **WHY *GUILERA***<sup>®</sup>

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- We develop proprietary technology, services and products since 1953
- We run an specialized engineering team for e-mobility applications since 2007
- We hold standing business relationships with many OEMs, Tier1s and Engineering companies
- We are used to working under demanding automotive standards, regulations and timings
- Our CEO is senior member of the UNE / ISO technical committee
- We are a flexible manufacturer with on-site medium/large production batches capabilities
- Our entire product range of Inverters and Converters is #MadeInEurope
- We have in-house testing capabilities, including full vehicle test bench for P2Ws, P3Ws and P4Ws
- We guarantee confidentiality, independence and best time to market

# INVERTERS

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# INVERTERS

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- Multifunction 3 in 1 inverters for easier, faster, cheaper integration into EV developments:
  - MOTOR CONTROL
  - DC/DC CONVERTER
  - ECU
- Voltage range from 36V to 72V
- Sinusoidal and/or FOC control CAN communication protocol
- Compact design (flat / narrow) for easier vehicle integration
- Multiple power maps set-up to each customer application
- Designed and made in our factory in Barcelona

# INVERTERS

## FEATURES

36 / 48 V

250 W - 750 W

UART communication

Narrow design for  
in-frame integration

## APPLICATIONS

e-bikes

Mountain bikes

Pedelecs

Demonstration vehicle:  
JOTAGAS eBike

(0,25kW – 0.75kW)



# INVERTERS

## FEATURES

48 V

1 – 2 kW

UART communication

Narrow design for  
in-frame integration

## APPLICATIONS

Kids trial-bikes

Mopeds

P2Ws, P3Ws

Demonstration vehicle:  
CONFIDENTIAL

(1kW - 2kW)

**NEW**





# INVERTERS

## FEATURES

48 V

1,5kW – 2 kW

UART communication

Narrow design

IP67

## APPLICATIONS

Moto-bikes

s-pedelecs

Demonstration vehicle:  
BULTACO Brinco

(1.5kW - 2kW)



# INVERTERS

## FEATURES

- 48 V
- 2 kW – 4 kW
- UART / CAN communication
- Flat design  
(lower seat height)

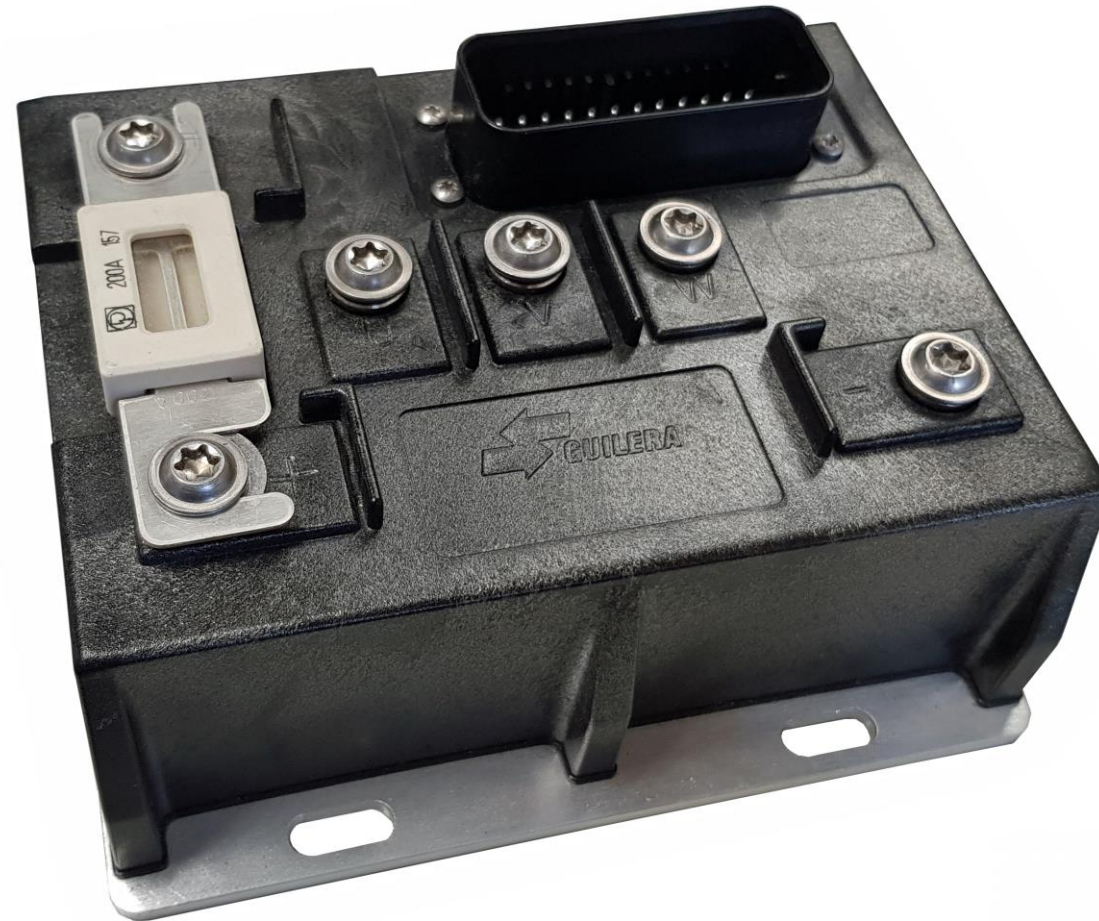
## APPLICATIONS

- Mopeds
- P2Ws, P3Ws

Demonstration vehicle:  
TORROT nuvi

(2kW - 4kW)

NEW



# INVERTERS

## FEATURES

48 V / 4 kW – 6 kW

72 V / 6 kW – 10 kW  
*under development*

CAN communication

Multi-layer / flat design

Integrated DCDC converter

## APPLICATIONS

e-scooters

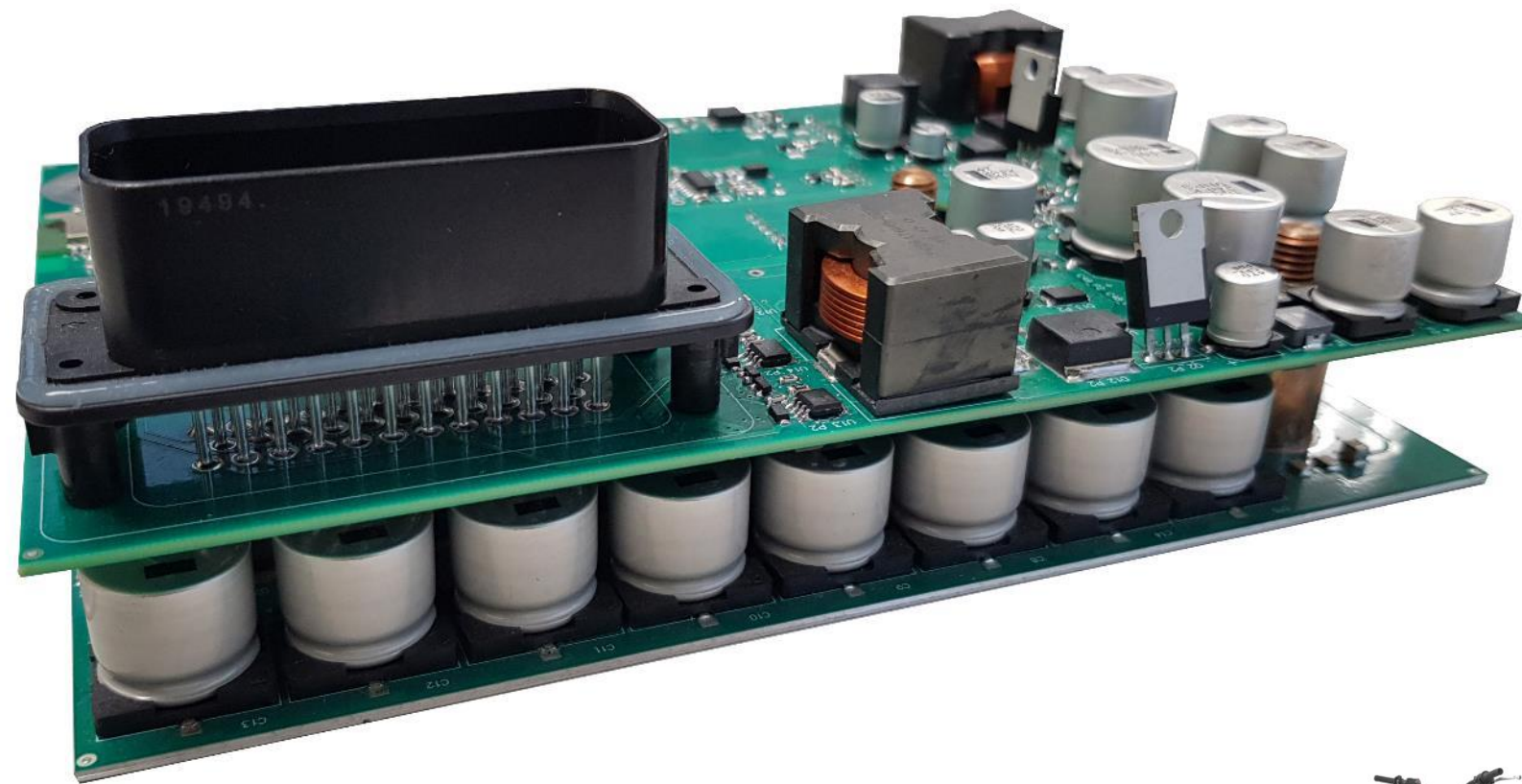
e-motorcycles

e-trial

e-Micro Cars

Demonstration vehicle:  
MECATECNO e-trial

(4kW - 10kW)





# TESTING CAPABILITIES

- In-house 20 kW roller test bench
  - Equipped with an external power supply in order to achieve repetitive tests
  - Development & Validation testing
  - Customization of vehicle performance
- Climatic chamber, thermal shock and vibration tests

## ADDITIONAL ON-SITE TESTING SERVICES

- Power/torque/temperature characterization
- Endurance/consumption tests
- Fatigue (electrical), vibration and cycling tests (for single components)







## HEADQUARTERS

Ramon Llull, 8  
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